

HAWAIIAN  
*Almanac and Annual*

FOR



A HAND BOOK OF INFORMATION

ON MATTERS RELATING TO THE HAWAIIAN ISLANDS, ORIGINAL AND SELECTED, OF VALUE TO MERCHANTS, PLANTERS, TOURISTS AND OTHERS.

*THOS. G. THRUM, COMPILER AND PUBLISHER.*

THIRTEENTH YEAR OF PUBLICATION.

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HONOLULU:  
PRESS PUBLISHING COMPANY.

1886.

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# WOODLAWN

## DAIRY & STOCK CO., L'D.



This Dairy commenced business in June, 1879, under the name of "WOODLAWN DAIRY," with stock consisting of ten native cows. With the steady growth of the business, special regard has been paid to the importation of the best Dairy Stock. In the early part of 1883, a "Short Horn" Bull was imported from California, known on the Record as the "19th Duke of Manchester." In 1884 the Thorough Bred Short Horn "Duke of the Valley" was purchased at \$400; the animal was then 15 months old. In the spring of 1886 two thorough bred Holsteins were imported by this Company, from Syracuse, New York. These animals were sent out to California by rail, thence by sail to this port. These are probably the finest bred animals for beef and milk combined, ever landed on these Islands. One of these bulls now in use at this Dairy weighed 1400 pounds when two years old, and about 1800 at 30 months. A few Holstein Cows and Heifers have been added to this stock, one Heifer from Syracuse cost \$450 there. One Holstein Heifer raised here, came in with her first calf last spring, her age being about 30 months, and gave, for nearly three months, 16 quarts of milk per day. Several other heifers raised at this Dairy have given from 12 to 15 quarts per day. The Manager Mr. John Grace recently returned from a trip to California where he purchased with great care from the best dairy farms in that State, including the well-known Jersey farm of Mr. Maillard, 63 head of graded and thorough bred Jersey Cows and Heifers and one thorough bred Jersey Bull. Any one desiring to improve their stock CANNOT DO BETTER than to apply to the Woodlawn Dairy and Stock Company for some of their superior young Bulls, raised in this country from as fine dairy stock as can be found anywhere.

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A. B. HAYLEY.

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# The Hawaiian Hotel Carriage Co.,



General Livery and Feed Stables.

HORSES ON HAND FOR SALE.

ORDERS TAKEN FOR ALL KINDS OF STOCK.

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**Wagonettes, Carriages & Buggies**

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Matched Spans, Fine Road and Family Horses and Plantation Mules  
constantly arriving, and for sale low. Thorough bred and  
Trotting Stallions and Kentucky Jacks a  
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P. O. BOX 381.

**WAGONS & HALEY, PROPRIETORS.**

# ROYAL HAWAIIAN HOTEL,

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## THE ROYAL HAWAIIAN HOTEL

Is one of the leading architectural structures of Honolulu. The grounds upon which it stands comprise an entire square of about four acres fronting on Hotel Street. This large area affords ample room for a lawn and beautiful walks, which are laid out most artistically with flowering plants and tropical trees. There are twelve pretty cottages within this charming enclosure, all under the Hotel management. The Hotel and cottages afford accommodations for 200 guests. The basement of the Hotel contains the finest Billiard Hall in the city, also a first-class bar, well stocked with wines and liquors.

The main entrance is on the ground floor, to the right of which are the elegantly furnished parlors. A broad passage-way leads from the main hall to the dining-room. These apartments open on to broad verandas, where a magnificent view of the Nuuanu Mountains may be seen through the wealth of a tropical foliage that surrounds the balconies.

The fare dispensed is the best the market affords, and is first-class in all respects. Hotel and cottages are supplied with pure water from an artesian well on the premises. The Clerk's office is furnished with the Telephone, by which communication is had with the leading business firms of the city.

---

Every effort has been made, and money lavishly expended, under the present able Management, to make this establishment

**THE MODEL FAMILY HOTEL,**

A REPUTATION IT NOW ENJOYS AND MOST JUSTLY MERITS.



# Union Feed Comp'y

LIMITED.

WAREHOUSES

Corner Queen and Edinburgh Streets,  
HONOLULU, H. I.

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## HAY & GRAIN

Of All Kinds.

FRESH SUPPLIES BY EVERY STEAMER FROM THE COAST.

PRICES LOW.

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*Island Orders Solicited and Goods Promptly Delivered.*

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AND

**Hawaiian Investment Company,**  
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**W. L. GREEN,** : : **Manager,**

*Money Loaned on Real Estate Security.*

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H. M. BENSON.

GEO. W. SMITH.

**BENSON, SMITH & CO.,**  
**PHARMACISTS,**

NOS. 113 AND 115 FORT STREET, HONOLULU, H. I.,

Wholesale and Retail Dealers in

**Drugs, Medicines, Toilet Articles & Fancy Goods.**

Particular attention paid to Filling Orders from the other Islands.

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**F. A. SCHAEFER & CO.,**

GENERAL

**COMMISSION MERCHANTS**  
**AND IMPORTERS.**

MERCHANT STREET,

HONOLULU, H. I.

# HENRY MAY & CO.,

TEA DEALERS,

Coffee Roasters & Provision Merchants,

*Fort Street, Honolulu, H. I.*

**New Goods Received by Every Vessel**

From the Eastern States and Europe. California produce by each steamer.

GOODS DELIVERED TO ANY PART OF THE CITY.

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G. J. Waller : Proprietor

Choicest Meats from Finest Herds. Families and Shipping Supplied on short notice at Lowest Market Prices. All meats delivered from this Market are thoroughly chilled, immediately after killing, by means of a Bell-Coleman Patent Dry Air Refrigerator. Meat so treated retains all its juicy properties, and is guaranteed to keep longer after delivery than freshly-killed meat.

---

SAMUEL C. ALLEN.

[At Robinson's Wharf.]

M. P. ROBINSON.

## ALLEN & ROBINSON,

DEALERS IN

**ALL KINDS OF BUILDING MATERIALS,**

COAL, PAINTS, OILS, NAILS, ETC.

Sole Agents for the Hawaiian Islands for the Wellington Collieries, Departure Bay, and the Hawaiian Stone Company, Manufacturers of a superior quality of Lime. Agents for Schooners Kulamano, Leah, Kauikaeouli, Luka, Caterina & Moi Wahine.

---

## J. D. RAMSEY,

Groceries and Provisions

HAY, GRAIN AND ALL KINDS OF FEED.

*No. 67 Hotel Street, - - Honolulu, H. I.*



# PACIFIC NAVIGATION Co. L'd.

**SHIPPING & GENERAL**

## COASTING AGENTS,

*Fire-Proof Building, Corner of Nuuanu and Queen Streets.*

Island or Coast Produce and Merchandise received, stored and shipped  
at moderate rates.

### SCHOONERS

WAILELE, WAIOLI, WAIMALU,  
WAIEHU, GEN. SEIGEL, MALOLO,  
EHUKAI, MANA, CANUTE,  
KE AU HOU, Brig HAZARD, and  
Steam Schooner SURPRISE.

RED FLAG WITH WHITE BALL.

**A. F. COOKE, Manager.**

---

## John Thomas Waterhouse,

IMPORTER,

WHOLESALE AND RETAIL DEALER IN

English, Scotch, French & American

Dry Goods, Fancy Goods, Cutlery, Hardware, Etc.

*Fire-Proof Building, Queen Street. and*

**DRY GOODS, FANCY GOODS. ETC.**

No. 10 FORT STREET, HONOLULU.

CLAUS SPRECKELS.

WM. G. IRWIN.

**WM. G. IRWIN & CO.,**  
**SUGAR FACTORS &**  
**COMMISSION AGENTS,**  
**Fort Street, Honolulu, H. I.**

AGENTS FOR THE

**OCEANIC S. S. COMPANY'S STEAMSHIPS**  
"Mariposa," "Alameda,"  
"Zealandia" and "Australia."

Running between San Francisco, California, and Honolulu, Hawaiian  
Islands; and conducting the

**AUSTRALIAN MAIL SERVICE,**

Running between Sydney, N. S. W., and San Francisco, Cal., via Auckland, New Zealand, and Honolulu, H. I.

---

**PLANTATION AGENCIES:**

Hilo Sugar Company, Hawaii,	Kilauea Sugar Company, Kauai,
Hutchinson Plantation Co., Kau, Haw.,	Olowalu Sugar Company, Maui,
Hakalau Plantation Company, Hawaii,	Ookala Sugar Company, Hawaii,
Paaubau Plantation, Hawaii,	Makaha Plantation, Waianae, Oahu,
Paaubau Mill, Hawaii,	Waikapu Sugar Company, Maui,
Waihee Sugar Company, Maui,	Reciprocity Sugar Company, Maui,
Makee Sugar Company, Kauai,	Huelo Mill Company, Maui,
Star Mill Company, Hawaii,	Huelo Plantation, Maui,
Hilea Sugar Company, Hawaii,	Rose Ranch, Maui

Hawaiian Commercial and Sugar Company, Maui.

---

**INSURANCE AGENCIES:**

Royal Fire Insurance Company,	Great Western Insurance Company,
Union Fire and Marine Insurance Co.,	North Western Life Insurance Company,
Swiss Lloyd's Insurance Company,	California Insurance Company.

CLAUS SPRECKELS & CO.,  
BANKERS,

**Honolulu, Hawaiian Islands.**

---

SAN FRANCISCO CORRESPONDENT:

**The Anglo-California Bank**

(LIMITED.)

---

Draw Exchange

On the principal points of the World, and transact a

**General Banking Business.**

**M. PHILLIPS & CO.,**  
*No. 10 Kakaumanu Street, - - - Honolulu, H.I.*  
**IMPORTERS AND**  
**COMMISSION MERCHANTS**  
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**JOHN NOTT,**  
**Tin, Copper & Sheet Iron Worker,**  
**PLUMBER, GAS FITTER, ETC.**  
**STOVES AND RANGES OF ALL KINDS.**  
Plumbers' Stock and Metals, House Furnishing Goods,  
Chandeliers, Lamps, Etc.

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**H. E. MCINTYRE & BROS.,**  
**PROVISION MERCHANTS;**  
**Grocery & Feed Store,**

*CORNER FORT & KING STREETS, HONOLULU.*

---

**GEO. ENGELHARDT,**  
[FORMERLY WITH SAM'L NOTT.]  
**IMPORTER AND DEALER IN**  
**STOVES, CHANDELIERS, LAMPS, CROCKERY, GLASSWARE,**  
**House Furnishing Hardware,**  
**Agate Iron & Tinware;**  
**AGENT FOR HALL'S SAFE & LOCK COMPANY.**  
**BEAVER BLOCK. - - - - - QUEEN STREET.**  
Store formerly occupied by S. Nott, opposite Spreckels & Co.'s Bank.

# THEO. H. DAVIES & CO.,

KAAHUMANU STREET, HONOLULU,

**General and Commission Merchants**

AGENTS FOR

Lloyds,

British and Foreign Marine Insurance Company,

Northern Assurance Company (Fire and Life),

"Pioneer" Line of Packets, Liverpool to Honolulu.

LIVERPOOL OFFICE—NOS. 41 AND 43 THE ALBANY.

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## C. BREWER & Co.

(LIMITED.)

ESTABLISHED IN 1826.

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**Commission and General Merchants,**

QUEEN STREET, HONOLULU, H. I.

OFFICERS:

P. C. JONES, JR.	-	-	-	-	-	-	-	Manager
JOSEPH O. CARTER,	-	-	-	-	-	-	-	Secretary and Treasurer
COL. W. F. ALLEN,	-	-	-	-	-	-	-	Auditor

DIRECTORS:

HON. CHAS. R. BISHOP,

MR. HENRY WATERHOUSE,

MR. SAM'L C. ALLEN.

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[CAMPBELL BLOCK,]

Corner Merchant & Fort Sts., - Honolulu, H. I.

S. N. CASTLE.

GEO. P. CASTLE.

J. B. ATHERTON.

# CASTLE & COOKE, SHIPPING

— AND —

## Commission Merchants,

IMPORTERS AND DEALERS IN

## GENERAL MERCHANDISE.

*No. 70 King Street, Honolulu, H. I.*

The Aetna Fire Insurance Company, of Hartford, Conn.

The Union Fire and Marine Insurance Company, of San Francisco, Cal.

The New England Life Insurance Company, Boston, Mass.

The Blake's Celebrated Steam and Vacuum Pumps.

Weston's Patent Centrifugals.

Dr. Jayne & Son's Celebrated Medicines.

Wilcox and Gibb's Sewing Machines.

Remington Sewing Machine Agency.

The Merchants' San Francisco, New York and Honolulu Packet Lines.

The Kohala Sugar Co.

The Haiku Sugar Co.

Papaikou Sugar Co.

Waialua Plantation, R. Halstead.

Paia Plantation Co.

A. H. Smith & Co.

Grove Ranch Plantation.



# HAWAIIAN Almanac and Annual

FOR



## A HAND BOOK OF INFORMATION.

ON MATTERS RELATING TO THE HAWAIIAN ISLANDS, ORIGINAL AND SELECTED, OF VALUE TO MERCHANTS, PLANTERS, TOURISTS AND OTHERS.

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THOS. G. THRUM, COMPILER AND PUBLISHER.

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THIRTEENTH YEAR OF PUBLICATION.

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HONOLULU:  
PRESS PUBLISHING COMPANY.  
1886.

COUNTING HOUSE

# CALENDAR.

1887.

	S	M	T	W	T	F	S
JAN.	..	..	..	..	..	..	1
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	9	10	11	12	13	14	15
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FEB.	..	..	1	2	3	4	5
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NO. 106 FORT STREET.

Importing and Manufacturing Stationery,

THOS. G. THURM,

PUBLISHER,

HONOLULU, H. I.

1887.

	S	M	T	W	T	F	S
JULY	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
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	31	..	..	..	..	..	..
AUG.	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
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SEPT.	..	..	..	..	1	2	3
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	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	..
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of. Thomas M. Spaulding

4-26-1923

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## ADVERTISEMENT.

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**T**HE continued success of the HAWAIIAN ALMANAC AND ANNUAL is sufficient evidence that the labors of the compiler, for the diffusion of reliable statistical, commercial, political and general information pertaining to the Hawaiian Islands, have not been in vain. This flattering reception and universal approval in whatever land the ANNUAL circulates, stimulates us to renewed effort to merit the confidence and support of the public. To this end, new subjects of island research are sought for and dealt with. Acknowledgements are due, therefore, to our increasing corps of contributors for their valuable aid, and to the various departments of the government for assistance in the revision of tables and for information supplied, as also to patrons at home and abroad for valuable suggestions toward enhancing the interest and value of this hand-book.

The increasing advertising patronage of the ALMANAC AND ANNUAL is another evidence of its popularity and value. While thanking our many friends for this substantial aid, we feel satisfied that with our thirteen years issues to a constantly widening reading public the returns to them are as helpful, if not more so, than through any other source.

To those journals, local and foreign, that have recognized the claim of the ANNUAL as a reliable hand-book of information on matters pertaining to the Hawaiian Islands, is due no small share of the publisher's gratitude.

THOS. G. THRUM.  
A.T.

Honolulu, November, 1886.

## HAWAIIAN ANNUAL CALENDAR FOR 1887.

Being the 109th year since the discovery of the Hawaiian Islands by Captain COOK.  
The latter part of the 111th and the beginning of the 112th year of the Independence of the United States of America. Also,

The year 5647-48 of the Jewish Era;

The year 1305 of the Mohammedan Era;

The year 2640 since the foundation of Rome, according to Varro.

## HOLIDAYS OBSERVED AT THE HAWAIIAN ISLANDS.

New Year.....	Jan. 1	* Kamehameha Day.....	June 11
Chinese New Year.....	Jan. 23	American Anniversary.....	July 4
* Accession of Kalakaua.....	Feb. 13	* His Majesty's Birthday.....	Nov. 16
* Kamehameha III. Birthday.....	Mar. 17	Thanksgiving Day—Am.....	Nov. —
Good Friday.....	April 8	* Recognition of Hawaiian Inde-	
Birth of Queen Victoria.....	May 24	pendence.....	Nov. 28
Decoration Day.....	May 30	* Christmas.....	Dec. 25

—Those prefixed by a \* are recognized by the Government.

## CHRONOLOGICAL CYCLES.

Dominical Letter.....	B	Solar Cycle.....	20
Epact.....	6	Roman Indiction.....	15
Golden Number.....	7	Julian Period.....	6000

## CHURCH DAYS.

Epiphany.....	Jan. 6	Ascension Day.....	May 19
Ash Wednesday.....	Feb. 23	Whit Sunday.....	May 29
First Sunday in Lent.....	Feb. 27	Trinity Sunday.....	June 5
Good Friday.....	April 8	Corpus Christi.....	June 9
Easter Sunday.....	April 10	Advent Sunday.....	Nov. 27
Regation Sunday.....	May 15	Christmas.....	Dec. 25

## ECLIPSES IN 1887.

In the year 1887 there will be four Eclipses, two of the Sun and two of the Moon.

1. A partial eclipse of the Moon, Feb. 7-8, visible throughout these islands, and observable at Honolulu as follows:  
Moon enters shadow Feb. 7, 10.42.5 P. M.  
Middle of eclipse, Feb. 7, 11.50.6 P. M.  
Moon leaves shadow, Feb. 8, 0.58.9 A. M.  
Magnitude of the Eclipse = 0.436.
2. An annular eclipse of the Sun February 22, not visible in the North Pacific Ocean.
3. A partial eclipse of the Moon, August 3, invisible at these islands.
4. A total eclipse of the Sun, August 18, not visible at these islands.

## MORNING AND EVENING STARS.

Mercury will be Evening Star about March 5, July 1, and October 27; and Morning Star about April 17, August 10, and December 6.

Venus will be Evening Star till September 21; and Morning Star the rest of the year.  
Jupiter will be Morning Star till April 21; then Evening Star till November 8; and Morning Star again the rest of the year.

## FIRST QUARTER, 1887.

JANUARY.					FEBRUARY.					MARCH.				
D.	H. M.				D.	H. M.				D.	H. M.			
2	First Quarter....1.49.0 A. M.				7	Full Moon.....11.42.6 P. M.				2	First Quarter....2.36.2 P. M.			
9	Full Moon.....0.07 P. M.				14	Last Quarter...3.05 P. M.				9	Full Moon.....10.2.4 A. M.			
16	Last Quarter....4.50.5 A. M.				22	New Moon.....11.8.8 A. M.				16	Last Quarter....3.10.6 A. M.			
23	New Moon.....4.29.6 P. M.									24	New Moon.....5.38.2 A. M.			
31	First Quarter...9.55.5 P. M.													
Day of Month...	Day of Week...	Sun Rises .....	Sun Sets .....		Day of Month...	Day of Week...	Sun Rises .....	Sun Sets .....		Day of Month...	Day of Week...	Sun Rises .....	Sun Sets .....	
		H. M.	H. M.				H. M.	H. M.				H. M.	H. M.	
1 Sat .....		6 38 05	30 0		1 Tues ...		6 37 65	50 4		1 Tues ....		6 20 66	04 5	
2 SUN .....		6 38 35	30 6		2 Wed....		6 37 25	51 0		2 Wed....		6 19 76	04 9	
3 Mon .....		6 38 55	31 3		3 Thurs...		6 36 95	51 6		3 Thurs...		6 18 96	05 3	
4 Tues .....		6 38 95	31 9		4 Fri .....		6 36 65	52 2		4 Fri .....		6 18 16	05 6	
5 Wed....		6 39 05	32 5		5 Sat .....		6 36 25	52 8		5 Sat .....		6 17 36	06 0	
6 Thurs...		6 39 25	33 2		6 SUN .....		6 35 75	53 4		6 SUN .....		6 16 46	06 4	
7 Fri .....		6 39 45	33 9		7 Mon....		6 35 25	53 9		7 Mon....		6 15 66	06 8	
8 Sat .....		6 39 65	34 5		8 Tues .....		6 34 65	54 5		8 Tues....		6 14 86	07 1	
9 SUN .....		6 39 85	35 2		9 Wed....		6 34 05	55 1		9 Wed....		6 14 06	07 5	
10 Mon....		6 40 05	35 9		10 Thurs...		6 33 45	55 6		10 Thurs...		6 13 16	07 9	
11 Tues .....		6 40 15	36 6		11 Fri .....		6 32 85	56 1		11 Fri .....		6 12 26	08 2	
12 Wed .....		6 40 25	37 4		12 Sat .....		6 32 25	56 6		12 Sat .....		6 11 36	08 6	
13 Thurs...		6 40 35	37 9		13 SUN .....		6 31 65	57 1		13 SUN .....		6 10 46	08 9	
14 Fri .....		6 40 35	38 6		14 Mon....		6 31 05	57 6		14 Mon....		6 09 56	09 2	
15 Sat .....		6 40 45	39 3		15 Tues .....		6 30 45	58 1		15 Tues .....		6 08 66	09 6	
16 SUN .....		6 40 45	40 0		16 Wed....		6 29 85	58 6		16 Wed....		6 07 76	09 9	
17 Mon....		6 40 35	40 7		17 Thurs...		6 29 25	59 2		17 Thurs...		6 06 86	10 2	
18 Tues .....		6 40 35	41 4		18 Fri .....		6 28 65	59 6		18 Fri .....		6 05 96	10 5	
19 Wed .....		6 40 35	42 0		19 Sat .....		6 28 06	00 2		19 Sat .....		6 05 06	10 8	
20 Thurs...		6 40 25	42 7		20 SUN .....		6 27 36	00 6		20 SUN .....		6 04 16	11 1	
21 Fri .....		6 40 15	43 4		21 Mon....		6 26 66	01 1		21 Mon....		6 03 26	11 5	
22 Sat .....		6 39 95	44 0		22 Tues .....		6 25 96	01 5		22 Tues .....		6 02 36	11 8	
23 SUN .....		6 39 85	44 7		23 Wed....		6 25 26	02 0		23 Wed....		6 01 46	12 1	
24 Mon....		6 39 65	45 4		24 Thurs...		6 24 56	02 4		24 Thurs...		6 00 46	12 4	
25 Tues .....		6 39 55	46 0		25 Fri .....		6 23 86	02 9		25 Fri .....		5 59 56	12 7	
26 Wed .....		6 39 25	46 6		26 Sat .....		6 22 26	03 3		26 Sat .....		5 58 66	13 0	
27 Thurs...		6 39 05	47 3		27 SUN .....		6 21 46	03 7		27 SUN .....		5 57 76	13 3	
28 Fri .....		6 38 75	47 9		28 Mon....		6 20 66	04 1		28 Mon....		5 56 86	13 6	
29 Sat .....		6 38 55	48 6							29 Tues....		5 55 96	13 9	
30 SUN .....		6 38 25	49 2							30 Wed....		5 55 06	14 2	
31 Mon....		6 37 95	49 8							31 Thurs...		5 54 16	14 5	

The foreign arrivals of vessels at all the ports of the Hawaiian Islands for the year 1885 were 253, with a total of 190,138 tons. Of this number of vessels 186 were from Atlantic and Pacific Ports of the United States, 55 were from Australia and New Zealand, 8 from Islands in the Pacific, 7 from China and Japan, 6 each from Great Britain and British Columbia, 2 from Germany and 1 each from South America and Madeira.

## CENSUS OF THE HAWAIIAN ISLANDS

Taken December 27, 1884.

## BY DISTRICTS AND ISLANDS.

HAWAII.		MOLOKAI AND LANAI.....	
Hilo.....	7,938		2,614
Puna.....	944		
Kau.....	3,483		
Kona, North.....	1,773		
Kona, South.....	1,825		
Kohala, North.....	4,481		
Kohala, South.....	589		
Hamakua.....	3,908		
	24,991		
MAUI.		OAHU.	
Lahaina.....	2,269	Honolulu.....	20,487
Wailuku.....	5,814	Ewa and Waianae.....	2,374
Hana.....	2,214	Waialua.....	1,265
Makawao.....	5,073	Koolauloa.....	1,321
	15,970	Koolaupoko.....	2,621
			28,068
		KAUAI.	
		Waimea and Niihau.....	1,762
		Koloa.....	1,500
		Kawaihau.....	1,882
		Hanalei.....	1,807
		Lihue.....	1,084
			8,935

## BY NATIONALITY.

Natives.....	40,014	Britons.....	1,282
Half-castes.....	4,218	Portuguese.....	9,377
Chinese.....	17,937	Germans.....	1,600
Americans.....	2,066	French.....	192
Hawaiian-born of foreign parents.....	2,040	Other foreigners.....	416
Japanese.....	116	Polynesian.....	956
Norwegian.....	362		
		Total Population, 1884.....	80,578

## POPULATION OF THE PRINCIPAL TOWNSHIP DISTRICTS OF THE HAWAIIAN ISLANDS.

Compiled from the latest Census, 1884.

NATIONALITIES.	HONOLULU, OAHU.	WAILUKU, MAUI.	LAHAINA, MAUI.	HILO, HAWAII.	LIHUE, KAUAI.
Natives, males.....	4,693	1,450	806	1,310	408
" females.....	4,310	1,271	705	1,112	272
Half-castes, males.....	857	157	86	132	32
" females.....	993	174	92	114	30
Chinese, males.....	4,712	1,908	359	1,787	346
" females.....	513	24	4	42	1
Hawn. b. forgn. pa. males.....	457	47	18	134	19
" females.....	399	44	9	131	24
Americans, males.....	539	133	4	105	17
" females.....	625	44	37	38	7
British, males.....	433	65	22	44	5
" females.....	358	7	2	5	..
German, males.....	257	29	..	100	260
" females.....	176	3	56	2	206
French, males.....	80	9	12	4	..
" females.....	46	..	..	..	..
Portuguese, males.....	309	174	..	1,545	104
" females.....	261	98	2	1,252	85
Japanese, males.....	33	20	..	4	6
" females.....	15	..	2	..	..
Norwegians, males.....	84	53	2	14	14
" females.....	22	14	..	7	10
Polynesians, males.....	76	34	2	77	80
" females.....	39	20	2	8	45
Other Foreigners, males.....	141	36	11	20	11
" females.....	49	..	2	1	2
Totals.....	20,487	5,814	2,269	7,988	1,934



## SECOND QUARTER, 1887.

APRIL.				MAY.				JUNE.			
D.	H. M.			D.	H. M.			D.	H. M.		
1	First Quarter	3.22.3	A. M.	7	Full Moon	3.30.0	A. M.	5	Full Moon	q.6.6	P. M.
7	Full Moon	7.7.5	A. M.	14	Last Quarter	9.46.0	A. M.	13	Last Quarter	3.2.7	A. M.
24	Last Quarter	5.32.3	P. M.	22	New Moon	0.34.0	P. M.	20	New Moon	0.21.3	A. M.
22	New Moon	9.21.7	A. M.	29	First Quarter	6.48.1	P. M.	27	First Quarter	11.29.6	P. M.
30	First Quarter	0.28.8	P. M.								
Day of Month.	Day of Week.	Sun rises.	Sun sets.	Day of Month.	Day of Week.	Sun rises.	Sun sets.	Day of Month.	Day of Week.	Sun rises.	Sun sets.
1	Fri	5.53.2	6.14.9	1	SUN	5.29.0	6.25.1	1	Wed	5.17.2	6.38.1
2	Sat	5.52.3	6.15.2	2	Mon	5.28.4	6.25.5	2	Thurs	5.17.2	6.38.4
3	SUN	5.51.4	6.15.5	3	Tues	5.27.8	6.25.8	3	Fri	5.17.1	6.38.8
4	Mon	5.50.5	6.15.8	4	Wed	5.27.2	6.26.2	4	Sat	5.17.1	6.39.2
5	Tues	5.49.6	6.16.1	5	Thurs	5.26.6	6.26.6	5	SUN	5.17.0	6.39.6
6	Wed	5.48.7	6.16.4	6	Fri	5.26.1	6.27.2	6	Mon	5.17.0	6.40.0
7	Thur	5.47.8	6.16.7	7	Sat	5.25.5	6.27.4	7	Tues	5.16.9	6.40.3
8	Fri	5.46.9	6.17.0	8	SUN	5.25.0	6.27.8	8	Wed	5.16.9	6.40.7
9	Sat	5.46.0	6.17.3	9	Mon	5.24.4	6.28.2	9	Thurs	5.17.0	6.41.3
10	SUN	5.45.1	6.17.7	10	Tues	5.24.0	6.28.7	10	Fri	5.17.0	6.41.4
11	Mon	5.44.3	6.18.0	11	Wed	5.23.5	6.29.1	11	Sat	5.17.1	6.41.7
12	Tues	5.43.4	6.18.3	12	Thurs	5.23.0	6.29.5	12	SUN	5.17.2	6.42.0
13	Wed	5.42.6	6.18.6	13	Fri	5.22.5	6.30.0	13	Mon	5.17.3	6.42.4
14	Thurs	5.41.8	6.18.9	14	Sat	5.22.0	6.30.4	14	Tues	5.17.4	6.42.7
15	Fri	5.40.9	6.19.2	15	SUN	5.22.1	6.30.8	15	Wed	5.17.5	6.43.0
16	Sat	5.40.1	6.19.6	16	Mon	5.21.6	6.31.3	16	Thurs	5.17.6	6.43.2
17	SUN	5.39.3	6.19.9	17	Tues	5.21.2	6.31.7	17	Fri	5.17.8	6.43.5
18	Mon	5.38.5	6.20.3	18	Wed	5.20.9	6.32.1	18	Sat	5.18.0	6.43.8
19	Tues	5.37.7	6.20.6	19	Thurs	5.20.5	6.32.6	19	SUN	5.18.2	6.44.0
20	Wed	5.36.9	6.21.0	20	Fri	5.20.1	6.33.0	20	Mon	5.18.4	6.44.3
21	Thurs	5.36.2	6.21.4	21	Sat	5.19.8	6.33.4	21	Tues	5.18.7	6.44.5
22	Fri	5.35.4	6.21.7	22	SUN	5.19.6	6.33.9	22	Wed	5.18.9	6.44.7
23	Sat	5.34.7	6.22.1	23	Mon	5.19.3	6.34.3	23	Thurs	5.19.1	6.44.9
24	SUN	5.33.9	6.22.5	24	Tues	5.18.7	6.34.7	24	Fri	5.19.4	6.45.0
25	Mon	5.33.1	6.22.8	25	Wed	5.18.4	6.35.2	25	Sat	5.19.6	6.45.2
26	Tues	5.32.4	6.23.2	26	Thurs	5.18.2	6.35.6	26	SUN	5.19.8	6.45.3
27	Wed	5.31.7	6.23.6	27	Fri	5.18.0	6.36.0	27	Mon	5.20.1	6.45.5
28	Thurs	5.31.0	6.24.0	28	Sat	5.17.8	6.36.4	28	Tues	5.20.3	6.45.6
29	Fri	5.30.3	6.24.3	29	SUN	5.17.6	6.36.8	29	Wed	5.20.7	6.45.7
30	Sat	5.29.6	6.24.7	30	Mon	5.17.5	6.37.2	30	Thurs	5.21.0	6.45.7
				31	Tues	5.17.4	6.37.6				

San Francisco statistics show the steady growth of tonnage arrivals from the Hawaiian Islands for the first half years 1883-1886 as follows : 1883, 62 vessels, 19,909 tons; 1884, 49 vessels, 15,955 tons; 1885, 62 vessels, 22,193 tons; 1886, 116 vessels, 43,761 tons. This latter record shows an average of 19 vessels per month since January 1st; a number quite unprecedented in the annals of Hawaiian trade, and was exceeded in tonnage arrivals in 1886 only by (1) Australia with 59,901 tons, and (2) Europe with 57,587 tons.

## LESSONS FROM THE CENSUS OF 1884.

## DECREASE OF NATIVE AND INCREASE OF FOREIGN POPULATION.

CENSUS.	Total Population.	Foreigners.	Chinese.	Increase of all Foreigners.	Half Castes.	Natives.	Decrease of Natives.
1823....	142,000	.....	.....	.....	.....	142,000	.....
1832....	130,313	.....	.....	.....	.....	130,313	11,687
1856....	108,579	.....	.....	.....	.....	108,579	27,834
1853....	73,138	2,119	.....	.....	982	71,019	37,560
1860....	69,800	2,716	.....	597	.....	66,984	4,035
1866....	62,059	2,968	1,206	1,458	1,640	57,125	9,859
1872....	56,897	4,247	1,938	2,011	2,487	49,044	8,081
1878....	57,985	5,561	5,916	5,292	3,420	44,088	4,956
1884....	80,578	18,407	17,939	24,869	4,218	40,014	4,974

## LEPERS AT THE SETTLEMENT ON MOLOKAI.

SEX.	Under 10 yrs.	From 10 to 20	From 20 to 30	From 30 to 40	From 40 to 50	Over 50....	Total 1884....	In 1883....	In 1882....	In 1881....	In 1880....	In 1879....	In 1878....
Males.....	9	78	130	109	75	43	444	439	429	307	383	458	522
Females.....	13	23	88	84	44	22	274	282	262	265	242	300	346
Totals.....	22	101	218	193	119	65	718	721	691	662	625	758	868

## THE CENSUS OF 1884 BY AGES.

ALL NATIONALITIES.		HAWAIIANS.	
Under 6 years, Males.....	5,130	Under 6 years, Males.....	2,450
"    Females.....	5,060	"    Females.....	2,488
Between 6 and 15 years, Males....	6,574	Between 6 and 15 years, Males....	3,742
"    Females....	5,759	"    Females....	3,490
Between 15 and 30 years, Males...16,823		Between 15 and 30 years, Males...5,552	
"    Females...9,010		"    Females...5,123	
Between 30 and 50 years, Males...18,683		Between 30 and 50 years, Males...6,860	
"    Females...6,788		"    Females...5,387	
Over 50 years, Males.....4,329		Over 50 years, Males.....2,900	
"    Females.....2,422		"    Females.....2,022	
Total.....	80,578	Total.....	40,014

Denominations as shown by the Census are, Protestants, 29,685; Roman Catholics\*, 20,072; and Unreported, 30,821. Of this latter, 17,639 are Chinese, and 116 are Japanese.

\* The Roman Catholic Clergy claim 21,295, according to their private census, of May, 1885.

## THIRD QUARTER, 1887.

JULY.				AUGUST.				SEPTEMBER.			
D.	H.	M.		D.	H.	M.		D.	H.	M.	
4 Full Moon.....	10.	2.6	P. M.	3 Full Moon.....	10.	8.6	A. M.	2 Full Moon.....	0.41	1.1	A. M.
12 Last Quarter.....	8.25	5	P. M.	11 Last Quarter.....	1.	4.9	P. M.	10 Last Quarter.....	4.31	7	A. M.
20 New Moon.....	10.18	5	A. M.	18 New Moon.....	7.	7.1	P. M.	17 New Moon.....	3.28	3	A. M.
27 First Quarter.....	3.58	8	A. M.	25 First Quarter.....	9.49	5	A. M.	23 First Quarter.....	6.32	3	P. M.
Day of Month.	Day of Week.	Sunrise.....	Sunset.....	Day of Month.	Day of Week.	Sunrise.....	Sunset.....	Day of Month.	Day of Week.	Sunrise.....	Sunset.....
1 Fri.....		5.21.3	6.45.8	1 Mon.....		5.33.1	6.38.7	1 Thurs...		5.43.3	6.16.1
2 Sat.....		5.21.7	6.45.9	2 Tues.....		5.33.5	6.38.2	2 Fri.....		5.43.6	6.15.3
3 SUN.....		5.22.0	6.45.9	3 Wed.....		5.33.9	6.37.7	3 Sat.....		5.43.8	6.14.4
4 Mon.....		5.22.3	6.45.9	4 Thurs.....		5.34.3	6.37.1	4 SUN.....		5.44.1	6.13.6
5 Tues.....		5.22.7	6.45.8	5 Fri.....		5.34.7	6.36.5	5 Mon.....		5.44.4	6.12.7
6 Wed.....		5.23.0	6.45.8	6 Sat.....		5.35.0	6.35.9	6 Tues.....		5.44.6	6.11.9
7 Thurs.....		5.23.6	6.45.8	7 SUN.....		5.35.4	6.35.3	7 Wed.....		5.44.9	6.10.8
8 Fri.....		5.23.7	6.45.8	8 Mon.....		5.35.8	6.34.7	8 Thurs...		5.45.1	6.09.8
9 Sat.....		5.24.1	6.45.7	9 Tues.....		5.36.1	6.34.1	9 Fri.....		5.45.4	6.08.8
10 SUN.....		5.24.4	6.45.6	10 Wed.....		5.36.5	6.33.4	10 Sat.....		5.45.7	6.07.7
11 Mon.....		5.24.8	6.45.5	11 Thurs.....		5.36.8	6.32.8	11 SUN.....		5.46.0	6.06.7
12 Tues.....		5.25.2	6.45.4	12 Fri.....		5.37.2	6.32.1	12 Mon.....		5.46.2	6.05.7
13 Wed.....		5.25.6	6.45.2	13 Sat.....		5.37.5	6.31.4	13 Tues.....		5.46.5	6.04.8
14 Thurs.....		5.26.0	6.45.0	14 SUN.....		5.37.9	6.30.7	14 Wed.....		5.46.7	6.03.8
15 Fri.....		5.26.4	6.44.8	15 Mon.....		5.38.2	6.30.0	15 Thurs...		5.47.0	6.02.9
16 Sat.....		5.26.8	6.44.6	16 Tues.....		5.38.5	6.29.3	16 Fri.....		5.47.2	6.01.9
17 SUN.....		5.27.2	6.44.4	17 Wed.....		5.38.9	6.28.5	17 Sat.....		5.47.5	6.01.0
18 Mon.....		5.27.6	6.44.2	18 Thurs.....		5.39.2	6.27.8	18 SUN.....		5.47.7	6.00.0
19 Tues.....		5.28.0	6.43.9	19 Fri.....		5.39.5	6.27.0	19 Mon.....		5.48.0	5.59.0
20 Wed.....		5.28.4	6.43.6	20 Sat.....		5.39.8	6.26.2	20 Tues.....		5.48.2	5.58.1
21 Thurs.....		5.28.8	6.43.3	21 SUN.....		5.40.1	6.25.4	21 Wed.....		5.48.5	5.57.1
22 Fri.....		5.29.2	6.43.0	22 Mon.....		5.40.3	6.24.6	22 Thurs...		5.48.7	5.56.2
23 Sat.....		5.29.6	6.42.6	23 Tues.....		5.40.7	6.23.8	23 Fri.....		5.49.0	5.55.2
24 SUN.....		5.30.0	6.42.3	24 Wed.....		5.41.0	6.22.9	24 Sat.....		5.49.2	5.54.3
25 Mon.....		5.30.4	6.41.9	25 Thurs.....		5.41.3	6.22.1	25 SUN.....		5.49.5	5.53.3
26 Tues.....		5.30.8	6.41.5	26 Fri.....		5.41.6	6.21.2	26 Mon.....		5.49.7	5.52.4
27 Wed.....		5.31.2	6.41.1	27 Sat.....		5.41.9	6.20.4	27 Tues.....		5.50.9	5.51.5
28 Thurs.....		5.31.6	6.40.6	28 SUN.....		5.42.2	6.19.5	28 Wed.....		5.50.3	5.50.5
29 Fri.....		5.32.0	6.40.2	29 Mon.....		5.42.5	6.18.7	29 Thurs...		5.50.6	5.49.6
30 Sat.....		5.32.4	6.39.7	30 Tues.....		5.42.8	6.17.8	30 Fri.....		5.50.9	5.48.7
31 SUN.....		5.32.7	6.39.2	31 Wed.....		5.43.0	6.17.0				

The past two years shows quite a diminution in the number of Hawaiian letters passing through the Post Office, notwithstanding the increased facilities of the Postal Service throughout the islands. Reference to the Statistics of the Bureau, on page 26, shows a falling off in letters received of 5,400 in 1884 and 10,200 in 1885, while the number of Hawaiian letters forwarded in 1884 shows a decline of 7,550, and in 1885 of 6,900. On the other hand, the foreign correspondence shows a steady increase.

## LESSONS FROM THE CENSUS OF 1884.—Continued.

### ESTIMATED POPULATION OF HAWAIIAN ISLANDS, JUNE 30, 1886.

	Natives	Chinese	Portugese	Other Foreigners	Totals
Population as per Census of 1884.....	44,232	17,937	9,377	9,032	80,578
Passenger arrivals, excess over departures, 1885.		7,488	154	1,910	3,552
"          "          "          to June 30, 1886.		848			848
Less excess of departures over arrivals to June 30, 1886.	44,232	20,273	9,531	10,942	84,978
			158	201	359
	44,232	20,273	9,373	10,741	84,619
Less excess of deaths over births from January 1, 1885 to June 30, 1886.					45
Estimated population as of June 30, 1886.....					84,574

## MARRIAGES, BIRTHS AND DEATHS, HAWAIIAN ISLANDS, 1885-86.

	MARRIAGES	BIRTHS	DEATHS
For the year 1835.....	398	1,610	1,618
Six months 1886 to June 30.....	208	749	767
Totals.....	606	2,340	2,385

### COMPARATIVE TABLE OF POPULATION OF THE HAWAIIAN ISLANDS.

ISLANDS.	Est. 1823.	Census 1832.	Census 1836.	Census 1853.	Census 1860.	Census 1866.	Census 1872.	Census 1878.	Census 1884.
Hawaii.....	85,000	45,792	39,364	24,450	21,481	19,808	16,001	17,034	24,991
Mau.....	20,000	35,062	24,199	17,574	16,400	14,035	12,334	12,109	15,970
Oahu.....	20,000	29,755	27,800	19,126	21,275	19,799	20,671	20,236	18,068
Kauai.....	10,000	10,977	8,934	6,991	6,487	6,299	4,961	5,634	8,935
Molokai.....	3,500	6,000	6,000	3,607	2,864	2,299	2,349	2,581	2,614
Lanai.....	2,500	1,600	1,200	600	646	394	348	214	
Niihau.....	1,000	1,047	993	790	647	325	233	117	
Kahoolawe.....	50	80	80						
Totals.....	142,050	130,313	108,579	73,138	60,800	62,459	56,987	57,985	80,578

\*Kauai and Niihau.

## AREA, ELEVATION AND POPULATION OF THE HAWAIIAN ISLANDS.

NAMES.	Highest point of Elevation.	Length. Miles.	Breadth. Miles.	Areas in statute sq. miles	Acres.	Population.
Hawaii.....	13,805	90	74	4,210	2,500,000	24,991
Maui.....	10,032	48	30	760	400,000	15,970
Oahu.....	4,060	46	25	600	360,000	28,068
Kauai.....	4,800	25	22	590	350,000	8,935
Molokai.....	3,500	40	7	270	200,000	2,614
Lanai.....	3,000	17	9	150	100,000	
Kahoolawe.....	1,450	11	8	63	30,000	
Niihau.....	800	20	7	97	70,000	

\* Including Niiban.

## FOURTH QUARTER, 1887.

OCTOBER.				NOVEMBER.				DECEMBER.			
D.	H. M.			D.	H. M.			D.	H. M.		
1	Full Moon.....	5.15.8	P. M.	8	Last Quarter.....	6.29.4	A. M.	7	Last Quarter.....	4.39.2	P. M.
9	Last Quarter.....	6.25.7	P. M.	14	New Moon.....	9.36.8	P. M.	14	New Moon.....	8.49.8	A. M.
16	New Moon.....	0.3.5	P. M.	22	First Quarter.....	0.11.1	A. M.	21	First Quarter.....	8.29.7	P. M.
23	First Quarter.....	7.14.3	A. M.	30	Full Moon.....	4.48.6	A. M.	29	Full Moon.....	9.42.7	P. M.
31	Full Moon.....	0.59.3	A. M.								
Day of Month...	Day of Week...	Sun Rises.....	Sun Sets.....	Day of Month...	Day of Week...	Sun Rises.....	Sun Sets.....	Day of Month...	Day of Week...	Sun Rises.....	Sun Sets.....
		H. M.	H. M.			H. M.	H. M.			H. M.	H. M.
1 Sat.....		5 51 1	5 47 8	1 Tues...		6 03 1	5 24 0	1 Thurs....		6 21 3	5 17 2
2 SUN...		5 51 4	5 46 5	2 Wed...		6 03 6	5 23 5	2 Fri.....		6 22 0	5 17 3
3 Mon....		5 51 7	5 46 0	3 Thurs...		6 04 1	5 23 0	3 Sat.....		6 22 6	5 17 5
4 Tues....		5 52 0	5 45 0	4 Fri.....		6 04 7	5 22 5	4 SUN.....		6 23 3	5 17 6
5 Wed....		5 52 3	5 44 1	5 Sat.....		6 05 2	5 22 0	5 Mon.....		6 23 9	5 17 8
6 Thurs...		5 52 6	5 43 2	6 SUN.....		6 05 7	5 21 6	6 Tues....		6 24 5	5 18 2
7 Fri.....		5 52 9	5 42 3	7 Mon....		6 06 3	5 21 1	7 Wed....		6 25 1	5 18 3
8 Sat.....		5 53 2	5 41 4	8 Tues...		6 06 8	5 20 7	8 Thurs...		6 25 7	5 18 5
9 SUN...		5 53 6	5 40 6	9 Wed....		6 07 4	5 20 3	9 Fri.....		6 26 4	5 18 8
10 Mon....		5 54 1	5 39 7	10 Thurs...		6 08 0	5 20 0	10 Sat.....		6 27 0	5 19 1
11 Tues...		5 54 2	5 38 8	11 Fri.....		6 08 6	5 19 6	11 SUN.....		6 27 6	5 19 4
12 Wed....		5 54 6	5 38 0	12 Sat.....		6 09 2	5 19 2	12 Mon....		6 28 2	5 19 7
13 Thurs...		5 55 0	5 37 2	13 SUN...		6 09 8	5 18 9	13 Tues....		6 28 8	5 20 1
14 Fri.....		5 55 3	5 36 4	14 Mon....		6 10 4	5 18 6	14 Wed....		6 29 5	5 20 5
15 Sat.....		5 55 7	5 35 6	15 Tues...		6 11 0	5 18 4	15 Thurs...		6 30 1	5 20 9
16 SUN...		5 56 1	5 34 8	16 Wed....		6 11 6	5 18 2	16 Fri.....		6 30 7	5 21 3
17 Mon....		5 56 5	5 34 0	17 Thurs...		6 12 2	5 17 9	17 Sat.....		6 31 2	5 21 7
18 Tues...		5 56 9	5 33 2	18 Fri.....		6 12 8	5 17 7	18 SUN...		6 31 8	5 22 1
19 Wed....		5 57 3	5 32 5	19 Sat.....		6 13 5	5 17 5	19 Mon....		6 32 3	5 22 7
20 Thurs...		5 57 7	5 31 7	20 SUN...		6 14 1	5 17 4	20 Tues....		7 32 8	5 23 1
21 Fri.....		5 58 1	5 31 0	21 Mon....		6 14 8	5 17 2	21 Wed....		6 33 3	5 23 6
22 Sat.....		5 58 5	5 30 3	22 Tues...		6 15 4	5 17 1	22 Thurs...		6 33 8	5 24 1
23 SUN...		5 58 9	5 29 6	23 Wed....		6 16 1	5 17 0	23 Fri.....		6 34 3	5 24 6
24 Mon....		5 59 4	5 28 9	24 Thurs...		6 16 7	5 17 0	24 Sat.....		6 34 8	5 25 1
25 Tues...		5 59 8	5 28 2	25 Fri.....		6 17 4	5 16 9	25 SUN...		6 35 3	5 25 7
26 Wed....		6 00 2	5 27 6	26 Sat.....		6 18 0	5 17 0	26 Mon....		6 35 7	5 26 3
27 Thurs...		6 00 7	5 26 9	27 SUN...		6 18 7	5 17 0	27 Tues....		6 36 1	5 26 8
28 Fri.....		6 01 2	5 26 3	28 Mon....		6 19 3	5 17 0	28 Wed....		6 36 5	5 27 4
29 Sat.....		6 01 6	5 25 7	29 Tues...		6 20 0	5 17 1	29 Thurs...		6 36 9	5 28 2
30 SUN...		6 02 1	5 25 1	30 Wed....		6 20 7	5 17 2	30 Fri.....		6 37 2	5 28 6
31 Mon....		6 02 6	5 24 5					31 Sat.....		6 37 6	5 29 2

The nationality of vessels engaged in the export trade of the Hawaiian Islands for the six months of 1886, ending June 30, showed 79.88 per cent American; 9.14 per cent British; 8.21 per cent Hawaiian and 2.77 per cent German in the value of cargoes of produce exported. For 1885 the percentage stood as follows: American, 91.96; British, 3.59; Norwegian, 1.75; Hawaiian, 1.56, and German, 1.14.

## SCHOOL STATISTICS, HAWAIIAN ISLANDS.

From Report of the Board of Education.

## COMPARATIVE TABLE OF SCHOOL POPULATION, 1884-86.

	IN SCHOOL, JAN. 1884.			IN SCHOOL, JAN. 1886.		
	Boys.	Girls.	Total.	Boys.	Girls.	Total.
Hawaii .....	1,530	1,208	2,738	1,636	1,338	2,974
Maui .....	1,041	773	1,814	1,052	707	1,759
Molokai .....	182	128	310	149	102	251
Lanai .....	7	11	18	17	18	35
Oahu .....	1,667	1,307	2,974	1,613	1,359	2,972
Kauai and Niihau .....	502	367	869	593	432	1,025
Totals .....	4,929	3,794	8,723	5,060	3,956	9,016

## NUMBER OF SCHOOLS, CLASS, ETC., 1886.

	GOVERNMENT NATIVE SCHOOLS.			GOVERNMENT ENGLISH SCHOOLS.			INDEPENDENT SCHOOLS.		
	No. of Schools...	No. of Teachers...	No. of Pupils....	No. of Schools...	No. of Teachers...	No. of Pupils....	No. of Schools...	No. of Teachers...	No. of Pupils....
Hawaii .....	30	30	818	22	37	1,559	12	26	598
Oahu .....	16	16	464	10	35	1,033	19	60	1,475
Maui .....	15	15	324	12	31	1,060	7	12	374
Kauai .....	7	7	223	8	16	665	3	4	137
Molokai .....	8	8	154	2	2	97	.....	.....	.....
Lanai .....	1	1	35	.....	.....	.....	.....	.....	.....
Totals .....	77	77	2,018	54	121	4,414	41	102	2,584

## NATIONALITY OF PUPILS.

Hawaiians .....	5,881	Portuguese .....	1,185
Half-caste Hawaiians .....	1,042	Norwegians .....	55
Americans .....	300	Chinese .....	130
English .....	191	South Sea Islanders .....	24
Germans .....	175	Other Foreigners .....	33
Total .....			9,016.

## BEARINGS AND DISTANCES.

Honolulu Lighthouse to summit of Diamond Head, S. 50° 37' 40", E. (true) 24,559 feet.

Puuhia to Diamond Head Station, S. 2° 15' 30" E. (true) 26,515 feet.

Haleakala to Mauna Kea, S. 39° 23' 30" E. (true) 79.2 statute miles.

Average Magnetic Declination south part of Oahu, 9° 55' E.



## INTER-ISLAND DISTANCES BY SEA IN SEA MILES.

## AROUND OAHU.

## FROM HONOLULU, ESPLANADE WHARF, TO:

	Miles.		Miles.
Bell Buoy.....	1½	Kahuku.....	51
Diamond Head.....	5	Pearl Rivet Bar.....	6
Koko Head.....	12	Barber's Point.....	14
Makapuu Point.....	17	Kaena Point, N. W. of Oahu.....	34
Mokapu.....	29	Kahuku, N. pt. of Oahu, via Kaena.....	54

## HONOLULU TO:

	Miles.		Miles.
Lae o ka Lua, S. W. pt. of Molokai.....	35	Kawaihae.....	144
West point of Lanai.....	50	Kealakekua direct.....	157
Kalaupapa Leper Settlement.....	50	Kealakekua via Kawaihae.....	186
Lahaina.....	73	S. W. point Hawaii via Kawaihae.....	233
Lahulua.....	73	Punaluu.....	259
Hana.....	125	Hilo direct.....	192
Maalaea.....	85	Hilo windward.....	207
Makena.....	90	Hilo.....	230
Mahukona.....	134		

## HONOLULU TO:

	Miles.		Miles.
Koloa, Kauai.....	102	Waimea.....	120
Nawiliwili.....	98	Makena.....	120
Niihau.....	144		

## LAHAINA TO:

	Miles.		Miles.
Kalaupapa.....	17	Maalaea.....	12
Lanai.....	9	Makena.....	18

## KAWAIIHAE TO:

	Miles.		Miles.
Mahukona.....	10	Hilo.....	85
Waipio.....	40	Lae o ka Mano.....	20
Honokaa.....	50	Kailua.....	34
Laupahoe.....	65	Kealakekua.....	44

## HILO TO:

	Miles.		Miles.
East point of Hawaii.....	20	Punaluu.....	70
Keauhou, Kau.....	50	Kaaluau.....	80
North point of Hawaii.....	70	South point of Hawaii.....	85

## WIDTH OF CHANNELS—EXTREME POINT TO POINT.

	Miles.		Miles.
Oahu and Molokai.....	23	Maui and Kahoolawe.....	6
Diamond Head to S. W. point Molokai.....	30	Hawaii and Maui.....	26
Molokai and Lanai.....	7	Kauai and Oahu.....	61
Molokai and Maui.....	9	Niihau and Kauai.....	15
Maui and Lanai.....	9		

## OCEAN DISTANCES.—HONOLULU TO:

	Miles.		Miles.
San Francisco.....	2,100	Auckland.....	3,210
Portland.....	2,460	Sydney.....	4,484
Panama.....	4,620	Hongkong.....	4,303
Tahiti.....	2,380	Yokohama.....	3,440

## OVERLAND DISTANCES.

Prepared by J. M. LYDGATE.

## ISLAND OF HAWAII.

## THROUGH PUNA, FROM THE HILO COURT HOUSE.

HILO TO:	Miles.	HILO TO:	Miles.
Keaau.....	9½	Opihikao.....	29½
Makuu.....	15	Kaimu.....	37
Sand Hills Nanawale.....	18½	Kalapana.....	38
Pauala.....	21½	Panau.....	45
Kapoho.....	23	Volcano House.....	61
Pohoiki—Rycroft's.....	20½		

## TO VOLCANO.

HILO TO:	Miles.	HILO TO:	Miles.
Edge of Woods.....	4½	Kanekoa upper Half-way Houses.....	16
Cocoanut Grove.....	7½	Upper Woods.....	24
Through Ki Swamp.....	9½	Volcano House.....	30½
Hawelu's Half-way House.....	14		

## THROUGH HILO DISTRICT.

HILO TO:	Miles.	TO HILO:	Miles.
Honolii Bridge.....	2.5	Honohina Church.....	17.8
Paukaa Mill.....	2.9	Waikauamalo Bridge.....	18.8
Papaikou—Office.....	4.7	Pohakupuka Bridge.....	21.0
Onomea Church.....	6.9	Maulua Gulch.....	22.0
Kapapakea Cross Road.....	10.7	Kaiwilahila hi Bridge.....	24.6
Kolekole Bridge.....	14.3	Lidgate's House.....	26.1
Hakalau, east edge gulch.....	15.0	Laupahoehoe Church.....	26.7
Umauma Bridge.....	16.0		

## THROUGH HAMAKUA.

LAUPAHOEHOE CHURCH TO:	Miles.	LAUPAHOEHOE CHURCH TO:	Miles.
Hind's.....	.7	Mills' Store, Honokaa.....	18.0
Bottom Kawalii Gulch.....	2.0	Horokaia Church.....	20.5
Ookala, Manager's House.....	4.0	Kuaikalua Gulch.....	22.0
Soper's.....	4.9	Kapulena Church.....	23.0
Kealakaha Gulch.....	6.0	Waipanihua.....	24.3
Kaala Church.....	6.8	Bicknell's.....	25.8
Kukaimu Gulch.....	8.0	Stream at Kukuihaele.....	26.0
Horner's.....	8.5	Edge Waipio.....	26.5
Catholic Church, Kainehe.....	9.0	Bottom Waipio.....	27.0
Notley's, Paauilo.....	10.5	Waimanu (approximate).....	32.5
Kaumoali Bridge.....	12.5	Kukuihaele to Waimea (approximate).....	10.5
Bottom Kalopa Gulch.....	14.0	Gov't Road to Hamakua Mill.....	1.0
R. A. Lyman's, Paauhau.....	15.2	" " Paauhau Mill.....	1.0
Paauhau Church.....	16.3	" " Pacific Sugar Mill, Kukuihaele.....	.7

## THROUGH KOHALA.

Kawaihae to Waimea.....	11.0	Kawaihae to Hind's, Kohala (approx).....	14.0
" " Puko.....	5.0	Waimea to Kohala Plantation (approx).....	25.0
FOREIGN CHURCH, KOHALA, TO:		FOREIGN CHURCH, KOHALA, TO:	
Edge of Pololu Gulch.....	4.00	Star Mill.....	1.25
Niulii Mill.....	2.80	Star Mill R. R. Station.....	2.50
Dr. Wight's Store, Halawa.....	1.15	Union Mill.....	2.25
Halawa Mill.....	1.65	Union Mill R. R. Station.....	3.25
Hapuu Landing.....	2.15	Honomakau.....	2.50
Dr. Thompson's.....	1.75	Hind's, Hawi.....	3.25
Dramatic Hall, Kaiopihi.....	.40	Hawi R. R. Station.....	4.25
Kohala Mill.....	.50	Honoipu.....	7.25
Kohala Mill Landing.....	1.50	Mahukona.....	10.50
Native Church.....	1.00	Puuhue Ranch.....	7.25

## OVERLAND DISTANCES.—Continued.

## ISLAND OF OAHU.

HONOLULU POST-OFFICE, TO:

HONOLULU POST-OFFICE, TO:

	Miles.		Miles.
Waikiki Grove.....	3	Waimanalo.....	12
Diamond Head.....	4½	Kaneohe Plantation.....	9½
Coco Head.....	11	Kaalaea Plantation.....	15
Ewa Church.....	11	Kualoa Ranch.....	19½
Waiialua Church.....	18½	Punaluu Rice Plantation.....	26
Waianae Church, Pokai.....	30	Laie Settlement.....	32
Nuuanu Pali.....	6	Kahuku.....	38

## ISLAND OF KAUAL.

LILUÉ TO:

KOLOA TO:

	Miles.		Miles.
Waiatua Falls.....	5	Hanapepe.....	97
Koloa.....	10	Waimea.....	15
Kealia.....	14		
Kilauea.....	22	Waimea to Mana Point.....	10
Hanalei.....	30	Nawiliwili to Mana Point.....	35

## ISLAND OF MAUI.

LAHAINA TO:

KALEPOLEPO TO:

	Miles.		Miles.
Kaanapali.....	4	Makee's.....	10
Wailuku.....	20	Makawao.....	13½
KAHULUI TO		HAIKU LANDING TO:	
Wailuku P. O.....	3	Makawao.....	7
Makawao.....	11	MAKAWAO, SAYRE'S STORE, TO:	
Hana, through Hamakua.....	45	Summit of Haleakala.....	13
WAILUKU TO:		MAKENA TO:	
Kalepolepo.....	10	Makee's Plantation.....	3
Makee's Plantation.....	20	ULUPALAKUA TO:	
Makawao.....	14	Hana, via Kaupo.....	45

LATITUDES AND LONGITUDES AS ADOPTED BY THE  
HAWAIIAN GOVERNMENT SURVEY.

Corrected for the ANNUAL by PROF. W. D. ALEXANDER.

STATIONS.	LATITUDES.			LONGITUDES.		
	Deg.	Min.	Sec.	Deg.	Min.	Sec.
Honolulu Transit of Venus Observatory, as determined by Cap- tain Tupman.....	21	17	57.	157	51	48.
Honolulu Light House.....	21	17	54.99	157	52	12.99
Diamond Head Summit.....	21	15	20.59	157	48	52.12
Tanahua, Puu Oha.....	21	19	43.20	157	49	03.274
Makapu Station (east point of Oahu).....	21	18	15.57	157	39	20.12
Makapu Station, Kaneohe.....	21	27	01.07	157	44	04.66
Kahuku Point (northeast point of Oahu).....	21	42	19.207	157	58	59.78
Barber's Point, Laeoa.....	21	17	32.23	158	6	32.39
Puuloa (windmill).....	21	19	11.76	157	58	25.66
Laie Point.....	21	38	40.65	157	55	16.54
Kaena Point (northwest point of Oahu).....	21	34	13.10	158	16	55.576
Haleakala, Station on Summit.....	20	42	35.4	156	15	08.1
Lahaina Court House.....	20	52	3.4	156	40	50.5
Kauniki Point (east point of Maui).....	20	45	1.7	155	59	3.4
Puu Olai, or "Miller's Hill" (south of Makena).....	20	37	56.7	156	27	4.4
Halea (east end of Melokai).....	21	9	0.8	156	43	44.13
Kahoolawe Summit.....	20	33	39	156	35	21
Kawaihae Light House (approximate).....	20	02	12.5	155	50	5
Mauna Kea, Station on Summit (approximate).....	19	49	16	155	28	16
Halea Station, back of Hilo.....	19	42	44.7	155	5	55
Kailua, Hawaii Transit of Venus Observatory, as determined by Captain Tupman.....				156	00	40
Waimea, Kauai, Transit of Venus Observatory, as determined by Captain Tupman.....	21	57	12	159	40	10

## SELECTIONS FROM CUSTOM HOUSE TABLES, 1885.

## IMPORTS.—HONOLULU.

	VALUE GOODS PAYING DUTY.	VALUE GOODS FREE BY TREATY.	VALUE GOODS IN BOND.	TOTAL.
Ale, Porter, Beer, Cider .....	\$ 29,758 88	.....	\$ 33,301 80	\$ 63,060 77
Animals and Birds .....	254 00	\$ 50,475 05	.....	50,729 05
Building Materials .....	22,147 12	38,353 71	1,800 36	56,301 19
Clothing, Hats, Boots .....	150,903 94	110,090 23	7,115 16	268,109 33
Crockery, Glassware, Lamps and Lamp Fixtures .....	20,236 57	.....	221 19	20,457 68
Drugs, Surgical Instruments and Dental Materials .....	35,860 36	.....	56 09	35,917 35
Cottons .....	39,394 34	140,386 95	648 26	180,429 55
Lins .....	10,684 88	.....	1,093 34	11,778 22
Silks .....	25,545 78	.....	686 14	26,231 92
Woolens .....	34,323 47	13,128 10	26 81	48,078 38
Mixtures .....	14,441 63	1,836 04	36 51	16,314 18
Fancy Goods, Millinery, etc. ....	76,887 08	5,809 71	4,770 93	87,467 74
Fish (dried and salt) .....	8,477 17	62,474 87	25 00	70,977 04
Flour .....	1,190 02	143,146 28	12 32	144,357 62
Fruits (fresh) .....	357 00	12,739 82	.....	13,096 82
Furniture .....	30,977 01	29,672 68	173 52	60,823 21
Grain and Feed .....	345 16	200,108 86	.....	200,448 02
Groceries and Provisions .....	94,843 99	297,330 70	6,457 57	398,632 26
Guns and Gun Materials .....	6,181 94	3,579 54	242 00	10,003 48
Gun Powder .....	3,861 54	.....	.....	3,861 54
Hardware, Agricultural Implements and Tools .....	51,675 11	116,540 62	350 13	168,565 86
Iron and Steel, etc. ....	4,081 56	29,079 67	.....	36,316 86
Jewelry, Plate, Clocks .....	21,929 66	.....	203 00	22,132 66
Leather .....	1,880 44	39,405 55	.....	41,345 99
Lumber .....	381 41	195,714 41	.....	196,095 82
Machinery .....	35,739 20	152,565 55	.....	187,744 84
Matches .....	160 82	10,761 48	121 76	11,053 13
Musical Instruments .....	6,709 62	3,403 17	.....	10,162 86
Naval Stores .....	1,825 18	20,329 27	583 10	31,737 55
Oils, (coconut, kerosene, whale, etc.) ..	15,625 56	50,671 20	530 00	66,826 76
Paints and Paint Oils, and Turpentine ..	24,433 58	1,043 10	180 85	25,657 53
Perfumery and Toilet Articles .....	8,465 30	2,779 45	65 97	11,500 72
Railroad Materials, Rails, Cars, etc.) ..	12,561 26	1,324 45	.....	14,445 21
Saddlery, Carriages and Materials .....	18,572 27	30,703 80	.....	49,281 07
Shooks and Containers .....	117,539 78	5,665 10	8,616 43	131,871 31
Spirits .....	4,790 04	.....	83,549 58	93,339 62
Stationery and Books .....	12,542 30	45,375 13	167 00	58,084 43
Tea .....	17,376 20	.....	105 40	17,502 20
Tin and Tinware and Materials .....	4,015 02	.....	.....	4,015 08
Tobaccos, Cigars, etc. ....	6,295 51	84,781 29	40,526 90	132,003 70
Wines (light) .....	11,751 37	.....	14,783 57	26,534 94
Sundry Merchandise not included in the above .....	38,393 61	30,302 03	2,517 57	71,219 21
Charges on Invoices .....	31,707 94	28,775 42	4,195 84	64,679 20
25% added on Uncertified Invoices .....	2,417 64	.....	22 71	2,440 35
.....	\$ 1,058,637 25	\$ 1,062,102 25	\$ 218,587 72	\$ 3,239,327 22
Discounts, Damaged and short .....	.....	.....	.....	22,830 50
.....	.....	.....	.....	\$ 3,216,496 72

## IMPORTS.—OTHER PORTS.

	VALUE PAYING DUTY.	VALUE FREE BY TREATY.	VALUE IN BOND.	
Total at Kahului .....	\$ 37,652 62	\$ 142,335 87	\$ 130 00	\$ 232,091 49
Total at Hilo .....	14,059 39	144,001 94	.....	158,061 24
Total at Mahukona .....	7,552 43	8,395 42	.....	0,857 85
Value of goods free by Civil Code, at all ports .....	.....	.....	.....	214,007 28
Total Hawaiian Islands .....	.....	.....	.....	\$ 3,830,544 58
SPECIE .....	.....	(\$724,075 70)	.....	.....

## SELECTIONS FROM CUSTOM HOUSE TABLES, 1885.

## IMPORTS.—COUNTRY FROM WHICH IMPORTED.

## VALUE OF GOODS PAYING DUTY FROM

United States, Pacific Ports.....	\$412,119 37
United States, Atlantic Ports.....	12,822 55
Great Britain.....	409,407 72
Germany.....	141,825 38
Australia and New Zealand.....	12,416 56
China.....	96,936 89
France.....	10,211 00
Other countries.....	1,038 00
Total at all ports.....	\$1,095,778 07

## VALUE OF GOODS AND SPIRITS BONDED FROM

United States, Pacific Ports.....	\$120,759 73
United States, Atlantic Ports.....	3,561 32
Great Britain.....	47,588 43
Germany.....	14,067 96
Australia and New Zealand.....	5,586 09
China.....	21,927 26
France.....	4,172 07
Other countries.....	915 00
Total at all ports.....	\$218,579 86

## VALUE OF GOODS FREE BY CIVIL CODE FROM

United States.....	\$ 97,880 56
Great Britain.....	29,027 08
Germany.....	5,999 55
Australia and New Zealand.....	51,624 21
Other Countries.....	29,475 84
Total at all ports.....	\$214,007 28

## VALUE OF GOODS FREE BY "TREATY" FROM THE UNITED STATES.

At Honolulu.....	\$1,962,102 25
At Kahului.....	192,308 87
At Hilo.....	144,001 84
At Mahukona.....	8,395 42
Total at all ports.....	\$2,306,718 48

## VALUE OF GOODS IMPORTED FREE.

Animals and Birds.....	\$ 6,017 00
Bags and Containers.....	1,128 00
Coal and Coke.....	71,576 16
Diplomatic Represent'vs (Sundries).....	185 23
Fertilizer and Bone Meal.....	24,140 45
His Majesty (Sundries).....	6,831 91
Hawaiian Government.....	33,857 32
Iron, Steel &c.....	3,155 63
Plants and Seeds.....	628 49
Returned Cargoes.....	118 00
Sundries, by Permission.....	26,989 27

Sheathing Metal.....	\$ 1,357 37
Stationery and Books.....	1,280 75
Sundry Personal & Household Effects.....	14,642 42

Total at Honolulu.....	\$195,918 00
Kahului.....	11,684 00
Hilo.....	3,013 03
Mahukona.....	3,392 25
Total.....	\$214,007 28

## CUSTOMS RECEIPTS.

Import Duties Spirits.....	\$247,769 93
Import Duties Goods.....	115,637 21
Import Duties Bonded Goods.....	24,536 14
Blanks.....	18,050 50
Fees.....	3,544 50
Wharfage.....	20,430 56
Registry.....	167 22
Warehouse Storage.....	328 69
Kerosene Storage.....	1,930 91
Coasting License.....	3,725 24
M. H. Fund.....	1,395 55
Storage.....	11,082 13
Lights.....	1,163 14
Interest.....	4,502 83
Hospital Fund.....	9,434 00

Buoys.....	\$ 344 00
Passports.....	2,893 00
Fines and Forfeitures.....	12,557 27
Esplanade Storage.....	2,687 95
Towage.....	7,661 72
Honolulu.....	\$493,777 59
Kahului.....	6,009 98
Hilo.....	2,321 85
Mahukona.....	228 02
Total 1885.....	\$502,337 38
Total 1884.....	551,730 59
Decrease 1885.....	\$ 49,399 21

## RESUME OF IMPORTS.

United States.....	\$ 2,940,837 00
Great Britain.....	486,023 17
Germany.....	161,892 89
Australia and New Zealand.....	68,626 86
China and Hongkong.....	118,864 15
Other Countries.....	54,300 51
Total.....	\$ 3,820,544 58

## SELECTIONS FROM CUSTOM HOUSE TABLES, 1885.

## PRINCIPAL DOMESTIC EXPORTS.—COUNTRY TO WHICH EXPORTED.

	Pacific Ports, U.S.	Australia and New Zealand.	Islands in Pacific.	China	Total.
Sugar, lbs.....	171,346,625		3,689		171,350,314
Molasses, galls.....	57,941				57,941
Rice, lbs.....	7,362,200				7,367,253
Coffee, lbs.....	1,300		4,953	100	1,675
Fungus, lbs.....			275	100	1,137
Bananas, bnchs.....	60,046				60,046
Goat Skins, pcs.....	19,782			1,137	19,782
Hides, pcs.....	19,045				19,045
Wool, lbs.....	474,121				474,121
Betel Leaves, bxs.....	350				350
Calf Skins, pcs.....	26				26
Sheep Skins, pcs.....	8,783				8,783
Dried Bananas, bxs.....	837	55			892

## DOMESTIC EXPORTS, 1885.

ARTICLES.	QUANTITY.	VALUE.
Sugar,.....pounds	171,350,314	\$ 8,356,061 04
Rice,.....pounds	7,367,253	387,296 63
Hides,.....pieces	19,045	71,532 78
Bananas,.....bunches	60,046	58,809 50
Wool,.....pounds	474,121	49,573 93
Goat Skins,.....pieces	19,782	15,023 32
Molasses,.....gallons	57,941	7,050 00
Dried Bananas,.....boxes	892	4,265 00
Betel Leaves,.....boxes	350	1,045 00
Sheep Skins,.....pieces	8,783	7,755 02
Coffee,.....pounds	1,675	283 00
Fungus,.....pounds	1,137	113 70
Calf Skins,.....pieces	26	20 00
Sundries.....		4,954 36
Total value....		\$ 8,958,663 88

## TOTAL VALUE OF DOMESTIC PRODUCE EXPORTED.

Total Value of Domestic Produce Exported, Honolulu.....	\$7,355,795 11
Total Value Domestic Produce Exported, Kahului.....	1,345,168 00
Total Value Domestic Produce Exported, Hilo.....	257,700 77
Furnished as Supplies to Merchantmen (as per estimate).....	71,500 00
Furnished as Supplies to National Vessels (as per estimate).....	18,000 00
Total.....	\$9,048,163 88

## TOTAL OF ALL EXPORTS.

Value of Domestic Goods Exported.....	\$8,958,063 88
Value of Domestic Goods Furnished as supplies(estimated).....	80,500 00
Value of Foreign Goods Exported.....	110,654 13
Specie.....(\$64,602.00).....	
Total.....	\$9,158,818 01



## SELECTIONS FROM CUSTOM HOUSE TABLES, 1885.

## PASSENGERS STATISTICS.—ARRIVALS AND DEPARTURES, PORT OF HONOLULU.

FROM AND TO	FROM		TO.	
	Adults.	Children	Adults.	Children
San Francisco.....	1375	139	1332	231
Australia and New Zealand.....	90	6	135	9
Oregon and Washington Territory...	9	1	23	5
Victoria, B. C.....	7	.....	3	.....
China and Japan.....	5	.....	10	4
Islands in the Pacific.....	65	2	29	2
Atlantic Ports.....	2	1	.....	.....
European Ports.....	16	12	.....	.....
Totals.....	1569	161	1532	251

Total arrivals for the year..... 1,730  
 Total departures for the year..... 1,783

Excess of Departures..... 53

## PASSENGERS IN TRANSIT.

From San Francisco bound to Australia and New Zealand.....	1,385
From Australia and New Zealand bound to San Francisco.....	1,341
From Victoria, B. C., bound to China.....	1,100
From San Francisco, bound to China.....	491
From Tahiti, bound to San Francisco.....	10

## ARRIVALS AND DEPARTURES OF IMMIGRANTS, 1885.

FROM.	CHINESE.				JAPANESE.		PC			
	From.		To.		FROM.		From.		To.	
	A.	C.	A.	C.	A.	C.	A.	C.	A.	C.
China via San Francisco.....	2,960	32	176	1	.....	.....	.....	.....	.....	.....
China, direct.....	110	6	1,386	551	.....	.....	.....	.....	.....	.....
Japan.....	.....	.....	.....	.....	1,846	115	.....	.....	.....	.....
M. Michaels & Western Isles.....	.....	.....	.....	.....	.....	.....	193	120	.....	.....
San Francisco.....	.....	.....	.....	.....	.....	.....	24	24	99	88
Totals.....	3,070	38	1,562	56	1,846	115	712	124	99	88

Total Arrivals of Immigrants for the Year..... 5,410  
 Total Departures of Immigrants for the Year..... 1,805

Excess of Arrivals..... 3,605

# CUSTOM HOUSE EXHIBIT OF EXPORT TRADE FOR NINE MONTHS ENDING SEPTEMBER 30, 1886.

## QUANTITIES AND VALUES OF PRINCIPAL DOMESTIC EXPORTS FOR THREE MONTHS ENDING SEPTEMBER 30, 1886.

ARTICLES.	HONOLULU.		KAHULUI & HILO.		TOTAL AT ALL PORTS.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Sugar, lbs.	36,903,383	\$1,622,175 17	4,927,670	\$225,676 19	41,831,053	\$1,847,851 36
Rice, lbs.	2,223,664	98,874 92			2,223,665	98,874 92
Hides, pcs.	7,999	28,046 83	536	3,878 00	8,935	31,924 88
Bananas, bnchs.	12,660	12,240 00			12,660	12,240 00
Goat Skins, pcs.	6,829	3,885 40			6,829	3,885 40
Molasses, gals.	27,591	4,002 46			27,591	4,002 46
Sheep Skins, pcs.	2,225	258 50			2,225	258 50
Coffee, lbs.	605	104 50			605	104 50
Betel Leaves, bxs.	59	345 00			59	345 00
Sundries		4,729 00		80 10		4,809 10
Total Value.		\$1,774,618 83		\$229,634 29		\$2,004,253 12

## STATEMENT SHOWING VALUE OF DOMESTIC EXPORTS AND NATIONALITY OF VESSELS CARRYING SAME, FOR NINE MONTHS, ENDING SEPTEMBER 30, 1886.

NATIONALITY.	HONOLULU.	KAHULUI.	HILO.	TOTAL AT ALL PORTS.	PERCENT OF TOTAL.
American	\$5,748,936 61	\$1,547,838 88	\$ 92,800 22	\$7,329,665 71	76 50
Hawaiian	1,106,016 20		34,959 27	1,140,975 47	11 87
British	805,699 01			805,699 01	8 38
German	273,252 82			273,252 82	2 85
Total Value.	\$7,933,904 64	\$1,547,838 88	\$127,849 49	\$9,609,593 01	100 00

## QUANTITIES AND VALUES OF PRINCIPAL DOMESTIC EXPORTS FOR NINE MONTHS ENDING SEPTEMBER 30, 1886 AND 1885, RESPECTIVELY.

ARTICLES.	NINE MONTHS ENDING SEPT. 30, 1886.		NINE MONTHS ENDING SEPT. 30, 1885.	
	Quantity.	Value.	Quantity.	Value.
Sugar, lbs.	202,468,051	\$9,208,875 36	149,644,276	\$7,743,325 23
Rice, lbs.	5,401,775	249,828 43	5,383,553	283,365 54
Hides, pcs.	22,232	81,269 31	15,336	60,224 15
Bananas, bnchs.	35,102	33,417 29	43,673	43,577 50
Goat Skins, pcs.	14,483	8,911 35	16,445	10,700 58
Molasses, gals.	63,071	7,991 16	46,382	5,437 75
Sheep Skins, pcs.	7,360	799 00	7,563	1,620 62
Coffee, lbs.	4,631	847 00	1,375	241 50
Betel Leaves, bxs.	221	1,122 50	281	1,575 00
Tallow, lbs.	15,885	795 00		
Wool, lbs.	73,180	7,000 00	71,639	6,584 97
Awa, lbs.	865	73 70		
Dried Bananas, bxs.			892	4,265 00
Calf Skins, pcs.			26	20 00
Sundries		8,662 95		4,178 86
Total Value.		\$9,609,593 01		\$7,665,116 70

## COMPARATIVE TABLE OF LEADING IMPORTS.

For alternate years 1876-1884. For the year 1885, See page 16.

	1876.	1878.	1880.	1882.	1884.
Ale, Porter, Beer, Cider .....	\$19,792 34	\$20,548 31	\$36,159 40	\$36,414 96	\$72,590 31
Animals and Birds .....	261 40	18,690 85	81,533 85	74,622 69	94,133 20
Building Materials .....	21,596 39	107,042 33	82,287 85	85,395 82	126,893 15
Clothing, Hats, Boots .....	176,188 41	208,596 63	226,169 96	344,078 87	309,219 63
Crockery, and Glassware .....	14,127 61	17,991 70	25,841 31	36,773 63	49,591 54
Drugs and Medicines .....	17,029 59	17,945 27	27,818 08	46,000 41	48,181 50
Dry Goods—Cottons .....	167,451 47	165,159 13	151,134 60	261,015 66	191,102 21
Lins .....	9,163 62	8,618 96	13,318 40	20,876 22	14,374 44
Silks .....	12,712 13	23,270 96	25,638 25	35,475 36	30,075 78
Woolens .....	40,667 99	70,402 77	50,375 73	115,520 29	68,794 29
Mixtures .....	25,321 31	37,737 81	32,389 44	28,110 37	27,102 38
Fancy Goods, Millinery, etc. ....	53,118 31	53,752 01	66,637 71	116,503 96	101,213 39
Fish (dry and salt) .....	17,801 81	47,206 95	35,276 72	65,701 27	74,751 85
Flour .....	54,907 89	102,728 97	100,288 17	121,453 31	170,280 91
Fruits (fresh) .....	2,030 97	3,443 28	4,151 50	6,347 68	11,456 28
Furniture .....	27,662 93	49,432 22	73,345 83	124,033 20	96,599 53
Furs and Ivory .....	2,636 73	1,936 30			
Grain and Feed .....	14,513 32	34,695 61	73,951 15	171,525 52	184,593 53
Groceries and Provisions .....	90,466 12	269,573 50	379,704 20	453,161 39	470,929 42
Guns and Gun Materials .....	5,549 61	10,475 81	12,910 78	13,530 08	11,058 63
Gun Powder .....	2,714 35	3,514 39	5,317 31	7,038 54	4,392 92
Hardware, Agr. Implements & Tools &c. ....	105,828 18	210,299 58	215,088 33	275,328 87	285,991 31
Iron, Steel, etc. ....	29,873 35	56,954 20	34,841 78	62,797 39	61,224 87
Jewelry, Plate, Clocks .....	24,032 41	34,925 92	74,447 42	90,930 22	41,649 80
Leather .....	8,656 61	29,065 39	27,530 29	44,670 47	42,132 94
Lumber .....	98,322 24	212,552 71	221,212 18	248,557 23	283,902 01
Machinery .....	37,331 54	417,297 32	250,124 70	182,517 47	211,172 50
Matches .....	5,513 83	4,439 11	8,194 28	12,833 97	4,751 16
Musical Instruments .....	8,492 94	10,389 39	11,924 67	19,706 12	13,010 55
Naval Stores .....	35,527 25	58,114 47	67,493 39	73,882 16	42,539 43
Oils (cod, hnt, ker, bone, whale, etc.) .....	73,631 13	97,686 51	75,232 03	105,661 31	88,072 54
Paint, Paint Oils & Turpentine .....	13,543 03	23,503 16	40,729 57	50,564 29	33,550 67
Perfumery and Toilet Articles .....	13,324 56	11,057 36	13,651 61	17,090 89	12,083 35
Saddlery, Carriages, etc. ....	34,525 05	76,441 36	74,450 69	81,201 43	70,497 39
Shoes and Containers .....	53,948 90	50,108 70	72,257 95	62,909 20	106,792 11
Spirits .....	31,444 31	53,166 61	31,142 34	81,440 52	141,476 39
Stationery and Books .....	31,429 31	21,352 97	45,821 24	69,278 93	69,167 23
Tea .....	7,222 22	20,415 51	14,437 34	25,464 42	22,421 35
Tin and Tinware .....	5,914 87	5,474 36	6,256 80	12,536 21	10,699 84
Tobacco, Cigars, etc. ....	57,475 03	68,013 71	136,111 90	135,510 77	140,456 10
Whalebone .....	38,134 50	15,750 06			
Wine (light) .....	475 37	6,224 18	10,727 63	12,325 07	22,526 33

## AVERAGE MONTHLY METEOROLOGICAL TABLE.

Honolulu, From 1873 to 1877, inclusive.

	1873.			1874.			1875.			1876.			1877.		
	Bar.	Ther.	Rain.	Bar.	Ther.	Rain.	Bar.	Ther.	Rain.	Bar.	Ther.	Rain.	Bar.	Ther.	Rain.
January .....	30.08	74 <sup>1</sup> / <sub>2</sub>	1.65	29.05	73	4.02	29.06	72	4.45	30.00	75	3.73	30.02	71 <sup>1</sup> / <sub>2</sub>	3.24
February .....	30.07	73	5.15	29.88	73	9.75	29.91	73	2.92	30.00	76	4.73	30.08	72 <sup>1</sup> / <sub>2</sub>	2.90
March .....	30.06	74 <sup>1</sup> / <sub>2</sub>	3.30	29.97	75	4.49	30.02	75	3.86	29.96	75 <sup>1</sup> / <sub>2</sub>	6.43	30.05	72 <sup>1</sup> / <sub>2</sub>	10.94
April .....	30.05	75	1.25	30.02	74	3.24	30.02	74	4.22	30.11	75	3.58	30.12	73 <sup>1</sup> / <sub>2</sub>	13.41
May .....	30.05	76 <sup>1</sup> / <sub>2</sub>	0.27	30.04	77	1.75	30.04	78	4.16	30.20	77	5.87	30.09	74 <sup>1</sup> / <sub>2</sub>	7.27
June .....	30.05	80	1.27	29.96	78	1.90	29.97	78 <sup>1</sup> / <sub>2</sub>	2.44	30.13	79	1.07	30.13	76 <sup>1</sup> / <sub>2</sub>	1.14
July .....	30.05	80 <sup>1</sup> / <sub>2</sub>	0.58	29.95	80	1.25	29.96	80	0.95	30.17	79	1.42	30.15	76 <sup>1</sup> / <sub>2</sub>	2.27
August .....	30.06	81	0.07	29.95	80 <sup>1</sup> / <sub>2</sub>	0.30	29.95	81	1.09	30.08	76 <sup>1</sup> / <sub>2</sub>	2.58	30.11	76 <sup>1</sup> / <sub>2</sub>	1.19
September .....	30.00	81	0.05	30.01	79	1.02	29.94	79	3.11	30.03	78 <sup>1</sup> / <sub>2</sub>	0.51	30.10	76	2.64
October .....	30.03	78	0.33	30.00	77	2.50	29.97	77	0.95	30.05	78	0.37	30.09	76 <sup>1</sup> / <sub>2</sub>	1.63
November .....	30.04	76	6.05	29.91	67	5.84	29.75	79	4.45	30.01	77	3.35	30.11	76 <sup>1</sup> / <sub>2</sub>	2.24
December .....	30.01	75	11.06	30.00	62	15.75	30.00	74	4.46	30.06	75 <sup>1</sup> / <sub>2</sub>	2.62	30.08	74	3.43

COMPARATIVE VIEW OF COMMERCE OF HAWAIIAN ISLANDS FROM 1846, GIVING TOTALS FOR EACH YEAR.

Year.	Imports.	Exports.	Domestic Prod. Exported.	Foreign Prod. Exported.	Total Consumption House Receipts.	Transshipment of Oil and Bone.				Natl. Vess. No.	Shipping.		Spirits, Gallons Consumed.	Haw. Registered Vessels.	
						Galls.	Wh. Oil.	Galls.	Lbs. Bone.		No.	Tons.		No.	Tons.
1846	\$598,382	\$68,850	\$20,525	\$62,325	\$36,506	...	...	...	...	17	53	...	...	28	1,578
1847	710,138	269,276	200,018	55,268	48,801	...	...	...	...	4	67	...	3,271	67	2,160
1848	1848	608,618	206,819	33,551	55,668	...	...	...	...	7	90	...	3,443	78	2,873
1849	720,730	381,185	185,083	198,231	83,231	...	...	...	...	12	180	...	5,718	...	...
1850	1,038,058	781,052	516,522	240,529	121,506	...	...	...	...	12	469	...	8,251	80	3,539
1851	1,823,828	601,231	300,828	381,401	160,602	...	...	...	...	12	446	...	11,270	75	4,460
1852	750,868	638,293	257,251	381,142	173,001	...	...	...	...	3	235	...	14,148	69	4,432
1853	1,431,075	479,090	281,599	191,397	135,566	...	...	...	...	7	211	...	18,203	56	3,827
1854	1,596,637	595,122	274,029	311,092	132,125	...	...	...	...	10	125	...	27,537	54	6,271
1855	1,381,169	575,601	274,741	297,850	138,411	...	...	...	...	13	154	...	18,528	48	4,811
1856	1,151,422	670,486	406,278	207,545	123,194	...	...	...	...	10	123	...	14,779	43	4,718
1857	1,130,165	645,524	423,308	222,222	140,777	...	...	...	...	10	82	...	10,144	54	5,249
1858	1,080,660	787,082	590,066	257,115	166,138	...	...	...	...	10	115	...	14,637	53	5,249
1859	1,555,568	931,120	628,575	302,754	174,302	...	...	...	...	5	139	...	14,158	65	6,366
1860	1,227,749	807,450	480,590	306,932	171,302	...	...	...	...	7	117	...	14,295	68	6,035
1861	761,109	650,774	476,872	182,091	100,115	...	...	...	...	6	88	...	9,676	53	5,848
1862	908,279	836,444	590,541	251,882	107,460	...	...	...	...	7	93	...	8,940	58	6,645
1863	1,175,493	1,055,854	744,413	281,439	122,752	...	...	...	...	6	157	...	7,862	44	5,497
1864	1,712,211	1,602,131	1,113,328	546,852	159,116	...	...	...	...	8	157	...	11,745	75	10,170
1865	1,945,205	1,808,257	1,521,211	287,045	194,566	...	...	...	...	7	151	...	15,110	77	11,456
1866	1,957,410	1,934,821	1,650,661	438,755	255,947	...	...	...	...	11	134	...	16,030	63	9,791
1867	1,957,410	1,808,215	1,424,122	447,049	210,770	...	...	...	...	7	113	...	17,000	61	10,338
1868	1,933,700	1,808,215	1,424,122	447,049	210,770	...	...	...	...	10	159	...	19,948	64	10,855
1869	2,046,068	2,144,949	1,743,291	632,347	273,815	...	...	...	...	6	171	...	18,817	57	8,608
1870	1,935,227	1,743,094	1,514,425	630,517	221,332	...	...	...	...	7	146	...	18,843	54	8,561
1871	1,935,227	1,743,094	1,514,425	630,517	221,332	...	...	...	...	12	109	...	21,212	58	8,101
1872	1,746,178	1,607,521	1,275,567	204,816	228,375	...	...	...	...	12	120	...	21,131	51	7,376
1873	1,437,611	1,218,054	1,022,455	217,104	18,3857	...	...	...	...	13	120	...	18,466	54	8,101
1874	1,437,611	1,218,054	1,022,455	217,104	18,3857	...	...	...	...	14	141	...	19,707	45	6,755
1875	1,505,670	1,306,610	1,022,455	217,104	18,3857	...	...	...	...	17	168	...	21,223	54	8,994
1876	1,811,770	1,601,041	1,275,567	204,816	228,375	...	...	...	...	11	134	...	21,223	54	8,994
1877	2,554,350	2,376,202	2,005,133	213,786	230,400	...	...	...	...	6	231	...	36,360	55	7,949
1878	3,046,370	3,585,472	3,131,979	214,402	284,426	...	...	...	...	15	230	...	44,289	63	10,140
1879	3,745,978	3,745,978	3,131,979	214,402	284,426	...	...	...	...	13	258	...	49,085	60	9,338
1880	3,073,268	4,968,445	4,889,104	79,251	402,182	...	...	...	...	6	258	...	50,084	60	9,338
1881	4,547,979	6,855,436	6,789,076	66,360	423,109	...	...	...	...	13	267	...	61,272	64	11,289
1882	4,974,510	8,299,017	8,165,931	133,085	595,301	...	...	...	...	11	241	...	70,160	53	9,826
1883	5,624,240	8,131,344	8,036,227	97,117	577,333	...	...	...	...	6	253	...	80,115	51	9,250
1884	4,632,514	8,131,344	8,036,227	117,274	551,737	...	...	...	...	...	...	...	...	...	...
1885	3,830,545	9,000,318	8,958,664	110,654	502,137	...	...	...	...	...	...	...	...	...	...

NOTE.—Where blanks occur in the earlier years, there was either no record or the figures, when given, were unreliable. The first transshipment of Oil and Bone was in 1851, so far as any record can be found for statistical purposes.

COMPARATIVE TABLE OF PRINCIPAL ARTICLES OF EXPORT, 1860-1886.

YEAR	LBS. SUGAR.	GALLS MOLASSES	LBS. RICE.	LBS. PADDY.	LBS. COFFEE.	PCS. HIDES	LBS. TALLOW	GOAT SKINS.	LBS. WOOL.	LBS. PULU.	LBS. FUNGUS	TONS SALT.	BUNCH'S BANAN'S	TOTAL VAL. ALL DOM. EXPORTS
1860	1,144,271	108,613	.....	.....	48,966	19,964	84,957	37,298	70,524	649,204	178,794	884	.....	\$ 349,926.54
1861	2,562,498	128,259	.....	.....	45,366	7,463	233,100	21,945	119,927	530,835	278,330	762	.....	404,172.74
1862	3,005,603	130,445	111,008	812,176	146,463	15,461	242,942	53,076	40,368	738,064	301,417	598	121	532,949.87
1863	5,292,121	114,443	123,451	598,291	133,171	16,366	282,640	43,646	233,163	425,081	279,158	656	60	678,213.54
1864	10,414,441	340,436	319,835	105,320	50,083	12,049	186,700	32,333	196,667	643,437	368,835	729	1,940	970,228.81
1865	15,318,097	542,819	154,257	.....	310,799	8,849	186,490	54,988	144,085	221,266	223,979	120	1,211	1,430,211.82
1866	17,729,101	851,795	435,397	.....	93,682	8,331	159,731	76,115	73,131	212,026	120,342	739	1,771	1,396,621.61
1867	17,127,187	544,994	441,750	572,099	127,546	11,207	60,936	51,889	409,471	203,958	167,666	107	2,913	1,205,622.02
1868	18,312,926	492,839	40,450	862,954	78,373	11,144	109,504	57,670	258,914	342,882	76,781	540	3,966	1,340,469.26
1869	18,302,110	338,311	48,860	1,586,959	340,841	12,863	85,937	62,736	218,752	622,998	85,215	1,152	6,936	1,639,091.59
1870	18,783,639	216,662	152,068	535,453	415,111	13,095	90,388	67,463	234,666	233,803	41,968	513	4,007	1,403,025.06
1871	21,760,773	271,291	417,011	867,452	46,926	19,384	185,240	58,900	471,706	292,720	37,475	711	3,876	1,650,644.46
1872	16,995,402	192,105	455,121	894,582	39,276	27,066	493,978	53,598	288,526	421,227	32,161	522	4,520	1,345,585.38
1873	23,129,101	146,459	941,438	507,945	262,025	20,677	609,855	66,702	329,507	412,823	57,538	445	6,492	1,661,407.78
1874	24,566,611	90,060	1,187,986	439,157	75,496	22,620	125,596	71,955	399,926	418,320	50,955	730 1/4	6,494	1,555,355.37
1875	25,080,182	93,722	2,573,739	556,495	165,977	22,777	851,920	60,598	565,469	379,003	45,098	96	10,518	1,774,082.91
1876	26,072,429	130,073	2,529,324	1,542,603	153,667	11,105	327,291	45,205	405,542	314,432	35,893	5	14,982	1,994,833.55
1877	25,575,995	151,462	2,691,370	2,571,987	101,345	22,164	399,829	51,551	385,703	150,586	11,629	322	15,995	2,363,866.66
1878	38,431,458	93,136	2,767,768	2,784,861	127,963	25,309	239,941	64,525	522,757	212,740	22,364	180 1/4	13,431	3,333,979.49
1879	49,020,972	87,475	4,792,813	38,815	74,275	24,885	24,940	464,308	137,001	2,571	50	12,309	19,164	3,665,503.76
1880	63,584,871	198,355	6,469,840	.....	99,508	22,945	19,169	31,031	381,316	44,846	14,801	14 1/2	20,776	4,889,194.40
1881	93,789,483	263,587	7,682,700	102,370	18,912	21,972	118,031	21,308	528,489	53,415	4,282	302	28,848	6,789,076.38
1882	114,177,938	221,293	12,169,475	459,633	8,131	26,007	77,898	23,402	528,913	.....	3,111	.....	28,848	8,105,931.34
1883	114,107,155	193,997	1,619,000	1,368,705	16,057	38,955	32,252	24,798	318,271	.....	2,783	.....	44,902	8,036,227.11
1884	142,654,923	110,530	9,493,000	46,224	4,231	21,026	2,864	20,125	407,623	465	2,247	.....	58,040	8,067,648.82
1885	171,350,314	57,941	7,367,253	.....	1,675	19,045	.....	19,782	474,121	.....	1,137	.....	60,046	8,958,663.88
*1886	160,636,998	35,480	3,178,050	.....	4,026	13,297	15,885	7,654	73,180	.....	.....	.....	22,180	7,605,296.89

\*Six months to July 1st.

## COMPARATIVE TABLE OF IMPORT VALUES, FROM VARIOUS COUNTRIES SINCE 1877.

COUNTRIES.	CLASS OF IMPORTS.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
United States.....	(Dutiable. Bonded.)	\$583,119 02 81,402 91	\$322,240 17 111,498 79	\$395,609 08 76,206 68	\$506,812 90 138,453 13	\$76,275 81 118,177 94	\$699,704 77 140,352 82	\$772,808 81 150,242 28	\$423,641 70 133,348 17	\$424,941 92 124,321 05
Great Britain.....	(Dutiable. Bonded.)	1,606,142 54 249,860 87	1,619,987 61 514,404 34	1,860,355 33 798,261 17	2,026,557 90 577,661 14	2,046,577 12 726,031 23	2,786,974 63 730,389 16	3,169,415 70 822,001 01	2,779,137 59 610,150 71	2,391,574 03 499,467 72
Germany.....	(Dutiable. Bonded.)	41,825 28 193,324 38	34,711 30 99,442 20	43,683 98 185,807 69	45,005 73 44,777 17	145,223 52 205,268 94	68,374 30 166,357 52	117,293 73 191,793 03	105,381 84 184,017 07	47,588 43 141,895 38
Tahiti.....	(Dutiable. Bonded.)	8,324 96 157 50	20,394 25 1,053 47	4,876 06 869 56	3,911 82	28,444 99	18,834 05	24,538 85	13,328 68	14,067 96
British Columbia.....	(Dutiable. Bonded.)	112 00 4,872 10	29,838 80	11,102 20		28 37				
Australia and N.Z.....	(Dutiable. Bonded.)	54,046 66 22,591 75	42,081 27 10,595 32	65,922 73 11,428 31	51,725 46 9,868 04	44,163 32 6,365 46	30,004 99 3,204 05	32,206 93 5,945 50	18,806 01 10,568 41	11,416 56 5,586 09
China.....	(Dutiable. Bonded.)	30,772 98 1,340 55	57,046 80 25,846 31	86,443 43 39,459 97	86,690 46 34,528 80	58,753 79 18,509 00	112,597 05 26,569 52	59,306 77 19,666 64	141,333 03 37,828 62	99,936 89 21,927 26
France.....	(Dutiable. Bonded.)	..... .....	19,078 81	26,250 94	15,112 34	18,081 71	15,789 06	23,063 34	12,097 86	10,211 00
All other countries.....	(Dutiable. Bonded.)	897 95 54,121 83	1,560 85 23,102 59	7,597 11 1,897 87	1,712 34 18,341 66	6,179 41 2,593 56	2,423 24 510 56	7,131 01 230 05	9,022 75 987 25	4,172 07 1,038 00

## NATIONALITY OF VESSELS EMPLOYED IN FOREIGN CARRYING TRADE, 1876-1885.

Nation.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
American.....	99	75,639	117	81,417	156	102,621	177	99,102	181	102,308
Hawaiian.....	18	5,081	31	9,406	27	8,102	22	5,950	191	135,618
British.....	22	22,748	22	26,292	37	34,836	28	37,351	20	41,309
German.....	3	1,499	2	797	3	2,438	8	6,136	11	3,672
French.....	3	1,566	3	686	3	2,458	3	981	4	2,959
All others.....	5	1,253	6	1,019	12	13,115	13	2,044	2	4,225
Totals.....	141	108,706	181	120,977	232	163,640	251	151,576	241	187,826

## HAWAIIAN REGISTERED VESSELS. MERCHANTMEN AND TRADERS.

REGISTER.	CLASS.	NAME.	TONS.	REGISTERED OWNERS.
193 new	Bark	Kalakaua.....	404 89.95	J S Walker
208 do	Schr	Malolo.....	133 65.95	Pacific Nav Co
209 do	Schr	Gen. Seigel.....	39 12.95	J F Colburn
216 do	Schr	Jennie Walker.....	137 85.95	William Greig
237 do	Brig	Hazard.....	459 16.95	Pacific Nav Co
239 do	Bark	Thos. R. Foster.....	1127 79.95	J Campbell, C Brewer & Co, T R Foster,
249 do	Brig	Allie Rowe.....	337 47	John Lucas
257 do	Stmr	Zealandia.....	2489 19	John S Walker
258 do	Stmr	Australia.....	2489 19	John S Walker
259 do	Bark	Lady Lampson.....	489 46	C Brewer & Co
261 do	Bark	Star of Devon.....	497 01	Philip Butler

## COASTERS—STEAMERS.

REGISTER.	CLASS.	NAME.	TONS.	REGISTERED OWNERS.
177 new	Stmr	Likeli.....	596 58.95	Wilder Steamship Co
190 do	Stmr	Kilauea Hou.....	271 10.95	Wilder Steamship Co
196 do	Stmr	Mokolii.....	96 78.95	Wilder Steamship Co
204 do	Stmr	Lehua.....	217 91.95	Wilder Steamship Co
243 do	Stmr	Kinai.....	868 77.95	Wilder Steamship Co
207 do	Stmr	James Makee.....	244 15.95	Inter Island S N Co
218 do	Stmr	C R Bishop.....	231 36.95	Inter Island S N Co
224 do	Stmr	Iwalani.....	434 40.95	Inter Island S N Co
247 do	Stmr	W G Hall.....	590 09.95	Inter Island S N Co
262 do	Stmr	Waialeale.....	393 65	Inter Island S N Co
254 do	Stmr	Ivy Holmes.....	124 35	T H Hobron
— do	Stmr	Surprise.....	134	Pacific Nav Co
195 do	Stmr	Waimanalo.....	49 84.95	Waimanalo Sugar Co

## COASTERS—SAILING.

REGISTER.	CLASS.	NAME.	TONS.	REGISTERED OWNERS.
171 old	Schr	Manuokawai.....	51 45	Inter Island S N Co
41 new	Schr	Rob Roy.....	25 38.95	J I Dowsett
166 do	Schr	Nettie Merrill.....	158 77.95	Inter Island S N Co
171 do	Schr	Caterina Apiani Long.....	43 65.95	Allen & Robinson
179 do	Schr	Leahi.....	103 24.95	Allen & Robinson
180 do	Schr	Waialele.....	75 85.95	Pacific Nav Co
155 do	Schr	Mile Morris.....	22 32.95	F Wundenberg
183 do	Schr	Paleakala.....	116 75.95	C Afong
155 do	Schr	Mary E Foster.....	116 06.95	Inter Island S N Co
220 do	Schr	Waioli.....	65 62.95	Pacific Nav Co
182 do	Schr	Waiehu.....	60 37.95	Pacific Nav Co
194 do	Schr	Waimaiu.....	95 97.95	Pacific Nav Co
197 do	Schr	Liholiho.....	122 35.95	Inter Island S N Co
200 do	Schr	Luka.....	122 35.95	Inter Island S N Co
205 do	Schr	Mokuola.....	17 10.95	Tong Aki
211 do	Schr	Kaluna.....	86 44.95	Pacific Nav Co
215 do	Schr	Kauikeaouli.....	139 70.95	Allen & Robinson
219 do	Schr	Mana.....	107 10.95	Pacific Nav Co
213 do	Schr	Sarah.....	6 21.95	N Kanaauao
220 do	Schr	Josephine.....	8 28.95	F Wundenberg
220 do	Sloop	Emma.....	22 50.95	G W and H R Macfarlane
232 do	Sloop	Ehukai.....	45 35.95	Pacific Nav Co
234 do	Schr	Kahihilani.....	11 45.95	W F Williams
236 do	Schr	Healani.....	9 67.95	C H Judd
244 do	Schr	Rainbow.....	23 73.95	J Paiko
248 do	Schr	Sarah & Eliza.....	22 78.95	W F Williams
244 do	Schr	Kawailani.....	41 87.95	O Kalua
250 do	Schr	Kulamanu.....	127 35	S C Allen
252 do	Schr	Ke Au Hou.....	95 15	Pacific Nav Co
255 do	Schr	Canute.....	174 20	Pacific Nav Co
256 do	Schr	Heeia.....	36 10	J I Dowsett
260 do	Schr	Moi Wahine.....	147 25	S C Allen
— do	Schr	Kaulilua.....	—	Inter Island S N Co

## CLIPPER PASSAGES TO AND FROM THE COAST.

The following is a list of the most remarkable passages between these Islands and San Francisco and other ports on the Coast:

- 1858—Am. bark Vankee, 11 days to San Francisco.  
 1859—Am. ship Black Hawk, 9 days and 9 hours from San Francisco.  
 1861—Am. ship Fair Wind, 8 days and 17½ hours from San Francisco.  
 1861—Am. ship Norwester, 9 days and 16 hours from San Francisco.  
 1861—Am. bark Comet, 9 days and 20 hours from San Francisco.  
 1861—Am. bark Comet, 10 days and 12 hours to San Francisco.  
 1862—Am. ship Storm King, 9 days and 10 hours from San Francisco.  
 1864—Am. ship Matapan, 10½ days from San Francisco.  
 1864—Am. bark A. A. Eldridge, 11 days to San Francisco.  
 1866—Am. bark Ethan Allen, 11 days to San Francisco.  
 1878—Am. barkentine J. A. Falkinburg, 11 days to Astoria.  
 1879—Am. barkentine Catherine Sudden, 9 days and 17 hours to Cape Flattery.  
 1879—Am. schooner Claus Spreckels, 9½ days from San Francisco to Kahului.  
 1880—Am. schooner Jessie Nickerson, 10 days from Honolulu to Humboldt.  
 1880—Am. brigantine J. D. Spreckels, 10 days and 13 hours from San Francisco.  
 1881—Am. brigantine Consuelo, 10 days 20 hours from San Francisco to Kahului.  
 1881—Am. brigantine Wm. G. Irwin, 8 days and 17 hours from S. F. to Kahului.  
 1884—Am. schooner Emma Claudina, 9 days and 20 hours from Hilo to S. F.  
 1884—Am. schooner Rosario, 10 days from Kahului to San Francisco.  
 1884—Am. brigantine Consuelo, 10 days from Honolulu to San Francisco.  
 1886—Am. bark Hesper, 9½ days from Honolulu to Cape Flattery.  
 1886—Am. barkentine Anelia, 11 days from Honolulu to Port Townsend.

## QUICK PASSAGES OF OCEAN STEAMERS.

	Miles.	Steamer.	Date.	d.	h.	m.
Liverpool to New York.....	3,350	Oregon.....	Oct. 1883.....	7	8	33
Philadelphia to Queenstown.....	3,010	Illinois.....	Dec., 1876.....	8	18	3
New York to Havana.....	1,225	City of Vera Cruz.....	Aug., 1876.....	4	0	43
Havana to New York.....	1,225	City of New York.....	May, 1875.....	3	10	7
Havre to New York.....	3,154	La Bourgogne.....	June 1886.....	7	5	8
New York to Aspinwall.....	2,300	Henry Chauncey.....	1875.....	6	14	..
Aspinwall to New York.....	2,300	Henry Chauncey.....	1875.....	6	5	30
San Francisco to Yokohama.....	4,764	City of Peking.....	—.....	15	9	..
Yokohama to San Francisco.....	4,764	Oceanic.....	1876.....	14	13	..
New York to Queenstown.....	2,950	Etruria.....	Aug., 1885.....	6	9	10*
New York to Queenstown.....	2,950	Alaska.....	Sept., 1882.....	6	15	19
Queenstown to New York.....	2,950	Oregon.....	April, 1884.....	6	10	10
Queenstown to New York.....	2,950	Alaska.....	1883.....	6	21	40
Queenstown to New York.....	2,950	Etruria.....	Aug., 1885.....	6	5	44*
Shanghai to London.....	—	Sterling Castle.....	May, 1882.....	20	22	15†
Amoy to New York.....	—	Glenavon.....	June, 1882.....	44	14	..§
Plymouth, Eng., to Sydney.....	—	Austral.....	May, 1882.....	32	12	..§
Yokohama to San Francisco.....	4,764	Arabic.....	Oct., 1882.....	13	21	43
Yokohama to San Francisco.....	4,764	Gaelic.....	Sept., 1886.....	13	22	30
Honolulu to Tutuila.....	2,279	Mariposa.....	Jan., 1886.....	6	7	45*
Honolulu to Auckland.....	3,810	Zealandia.....	April, 1882.....	11	23	..
San Francisco to Honolulu.....	2,100	City of Sydney.....	1880.....	6	14	..
San Francisco to Honolulu.....	2,100	Zealandia.....	April, 1882.....	6	13	25
San Francisco to Honolulu.....	2,100	Mariposa.....	July, 1883.....	5	20*	..
San Francisco to Honolulu.....	2,100	Australia.....	June, 1882.....	6	16	..
Honolulu to San Francisco.....	2,100	Zealandia.....	Aug., 1881.....	6	23	30
Honolulu to San Francisco.....	2,100	Zealandia.....	Oct. 1882.....	6	10	45*
Honolulu to San Francisco.....	2,100	Mariposa.....	Aug., 1883.....	6	18	..
Auckland to Sydney.....	1,286	Mariposa.....	Jan., 1886.....	3	11	30*

\*Best on record. †Total time. Actual steaming time, 27d., 23h., and 45m.

§Including all stoppages. ‡Steaming time; or a little over 36 days, including all stoppages



## HAWAIIAN ISLANDS POSTAL SERVICE.

General Post Office, Honolulu, Oahu—F. Wundenberg, P.M.G.; David Manaku, Asstnt. P.M.G.; A. B. Scrimgeour, Book-keeper and Cashier; Henry Poor, Savings Bank Department; N. C. Willfong, Money Order Department; Miss A. L. Fillebrowne, Registry Department. Assistants—O. C. Swain, W. Johnson, G. L. Desha, D. P. Hoolapa, S. P. Aholo.

## POSTMASTERS ON OAHU.

Waialua .....	S. N. Emerson	Kaneohe .....	A. Ku
Waianae .....	Aug. Ahrens	Punaluu .....	J. Hale

## OVERLAND MAIL ROUTE, OAHU.

Leaves Honolulu at 10 A. M. on Wednesday, each week, for the circuit of the Island, arriving back Thursday afternoon or Friday morning. For Waianae, mail carrier leaves every Tuesday, at 10 A. M. Steamer——also takes a mail for Waianae and Waialua about once each week.

## POSTMASTER ON MOLOKAI.

Kaunakakai .....	R. W. Meyer	Pukoo .....	R. W. Meyer
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## POSTMASTER ON LANAI.

Lanai .....	Jesse Moorehead
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## POSTMASTERS ON KAUAI.

Kapaa .....	R. C. Spaulding	Hanalei .....	J. C. Long
Kilauea .....	R. A. McFie	Lihue .....	O. Scholz
Kekaha .....	W. Meier	Koloa .....	E. Strehz
Waimea .....			C. B. Hofgaard

## POSTMASTERS ON MAUI.

Lahaina .....	H. Turton	Kipahulu .....	W. von Uffel
Wailuku .....	E. H. Bailey	Kahului .....	W. J. Lowrie
Makawao .....	Jas. Anderson	Paia .....	C. H. Dickey
Hana .....	John Grunwald	Haiku .....	H. P. Baldwin
Hamoa .....	D. Center	Hamakuapoko .....	C. H. Wallace
Ulapakua .....	J. J. Halstead	Honokowai .....	J. A. Kaukau
Spreckelsville .....	G. C. Williams	Honokohau .....	L. K. Kalama

## POSTMASTERS ON HAWAII.

Hilo .....	L. Severance	Hakalau .....	J. F. Morrison
Kawaihae .....	John Stuppelbeen	Honokaa .....	W. P. Lumaheihei
Mahukona .....	Jno. Smithies (Acting P.M.)	Ookala .....	J. N. Wright
Kukuihaele .....	W. Horner	Paauhau .....	R. A. Lyman
Waipio .....		Kailua .....	J. Kaelemakule
Waimea .....	Mrs. L. Lyons	Keauhou .....	J. G. Hoapili
Kohala, Halawa } .....	J. Haig McKenzie	Kealakekua .....	H. N. Greenwell
Kohala, Puehuehu } .....		Napoopoo .....	S. W. Kino
Paauilo .....	H. Zerbe	Hoopulooa .....	D. S. Keliikuli
Hookena .....	D. H. Nahinu	Pahala .....	T. C. Wills
Laupahoehoe Plantation } .....	E. W. Barnard	Hilea and Honuapo .....	C. N. Spencer
Laupahoehoe Beach } .....		Waiohinu .....	C. Meinecke

HAWAIIAN ISLANDS POSTAL SERVICE.—*Continued.*

## OVERLAND MAIL ROUTES, MAUI.

From Lahaina to Wailuku, Makawao, Haiku and Ulupalakua, weekly—mail closes about 9 A.M. on Tuesdays or Wednesdays. Discontinued Dec. 1, 1886.

From Lahaina to Kaanapali and Kahakuloa, weekly—mail closes about 9 A.M. on Tuesdays or Wednesdays after arrival of steamer Kinau from Honolulu.

From Ulupalakua to Hana, weekly—mail closes in the morning on Tuesdays or Wednesdays after arrival of mails from steamer Kinau.

From Paia to Hana, weekly—mail closes soon after arrival of steamer mails on Tuesdays or Wednesdays.

From Kahului to Makawao and Haiku, &c., weekly—mail closes in the morning of Tuesdays or Wednesdays after arrival of steamer Likelike.

## OVERLAND MAIL ROUTES, HAWAII.

From Hilo to Kawaihae.—Leaves Hilo P. O. every Monday at 8 A.M., arriving at Laupahoehoe about 7 P.M. the same day, at Kukuihaele about 6 P.M. on Tuesday, and arriving at Kawaihae about 12 o'clock noon on Wednesday. On returning, leaves Kawaihae about 1:30 P.M. Wednesday, Kukuihaele 6 A.M. Thursday, Laupahoehoe 6 P.M. the same day, and arriving at Hilo Friday evening.

From Hilo to Waiohinu, Kau.—Leaves Hilo P. O. every Thursday morning, or soon after arrival of the mails, arriving at the Volcano House Friday evening, by the way of Puna, Pahala about Saturday noon, and arriving at Waiohinu in the evening of the same day. On returning leaves Waiohinu Monday about 7 A.M., arriving at Hilea 8 A.M., Pahala 11 A.M., Volcano House 8 P.M., and arriving at Hilo the next day.

From Waiohinu to Kealahakua.—Leaves Waiohinu P. O. every Wednesday at 7:30 A.M., leaves Hookena 8 A.M. Thursday, Napoopoo at 10 A.M. and arriving at Kealahakua 11:30 A.M. On returning leaves Kealahakua 12 o'clock noon Thursday, leaving Napoopoo 1 P.M., Hookena at 4 P.M. the same day, and arriving at Waiohinu about 5 P.M. Friday.

From Kawaihae to Kealahakua.—Leaves Kawaihae every Wednesday about noon, leaves Kailua about 7 A.M. Thursday, Keauhou 9 A.M., and arriving at Kealahakua about 11 A.M. On returning, after transferring the mails from the Waiohinu carrier, leaves Kealahakua on the same day, at about 12 o'clock noon, leaving Keauhou 2 P.M., Kailua at 4 P.M., and arriving at Kawaihae about 3:30 P.M. Friday.

From Kawaihae to Laupahoehoe (Kinau's circuit trip).—Leaves Kawaihae every alternate Tuesday about 2 P.M. or soon after arrival of the mails, leaving Kukuihaele about 8 A.M. Wednesday, and arriving at Laupahoehoe about 7 A.M. Thursday. On returning leaves about 2 P.M. the same day, Kukuihaele about 11 P.M., and arriving at Kawaihae about 5 A.M. Friday morning.

This mail service around Hawaii is intended to be a *weekly* service of the circuit of the Island.

## POST OFFICE STATISTICS.

LETTERS PASSING THROUGH THE GENERAL POST OFFICE, HONOLULU,  
FROM 1864 TO 1885.

YEAR. From April 1 to March 31.	INTER-ISLAND LETTERS.				FOREIGN LETTERS.	
	FOREIGNERS.		HAWAIIANS.		Letters Received.	Letters Forwarded
	Letters Received.	Letters Forwarded	Letters Received.	Letters Forwarded	Letters Received.	Letters Forwarded
1864 to 1865.....	15,594	13,652	7,650	9,570	.....	.....
1865 to 1866.....	21,642	14,886	14,379	16,078	.....	.....
1866 to 1867.....	23,282	16,607	30,082	22,821	.....	.....
1867 to 1868.....	25,873	19,013	23,733	25,535	.....	.....
1868 to 1869.....	27,543	19,547	25,920	25,986	.....	.....
1869 to 1870.....	27,433	19,806	25,233	24,499	.....	.....
1870 to 1871.....	29,147	19,118	28,596	28,091	25,811	24,994
1871 to 1872.....	24,655	23,333	26,364	35,715	26,772	23,713
1872 to 1873.....	27,717	24,199	41,662	41,340	25,020	25,895
1873 to 1874.....	38,313	25,007	45,816	44,233	26,679	25,481
1874 to 1875.....	35,545	23,488	39,232	39,027	26,112	28,737
1875 to 1876.....	38,166	23,564	35,630	44,233	31,742	31,650
1876 to 1877.....	36,349	29,558	32,250	49,977	33,244	35,780
1877 to 1878.....	42,409	37,094	33,472	52,181	42,465	44,505
1878 to 1879.....	57,907	47,957	43,605	67,153	45,682	43,372
1879 to 1880.....	72,953	63,936	46,496	69,489	50,352	57,209
1880 to 1881.....	85,649	76,255	55,170	83,757	70,682	69,375
1881 to 1882.....	102,559	106,374	64,487	85,858	77,461	83,724
1882 to 1883.....	114,056	130,992	75,113	100,936	95,765	101,644
1883 to 1884.....	121,391	138,080	72,971	108,736	117,901	130,292
1884 to 1885.....	123,061	152,145	66,442	98,810	136,642	132,153
*1882.....	110,734	130,199	74,272	99,806	80,509	96,482
1883.....	119,896	133,215	75,912	108,327	108,985	120,063
1884.....	128,970	152,466	70,511	100,670	131,761	146,815
1885.....	126,612	255,722	60,312	93,699	134,175	133,504

\*Since 1882, the official record of the Postoffice has been kept from January 1 to December 31, to conform with the Postal Union requirements.

## HAWAIIAN SILVER COIN.

The following denominations of Hawaiian silver have been coined and imported for the circulating medium of the Islands. United States gold is the standard for the payments of all sums over and above Ten Dollars:

Hawaiian Dimes.....	\$ 25,000
Hawaiian Quarter Dollars.....	125,000
Hawaiian Half Dollars .....	350,000
Hawaiian Dollars.....	500,000

\$1,000,000

TABLE OF ELEVATIONS OF PRINCIPAL LOCALITIES  
THROUGHOUT THE ISLANDS.

From the Records of the Government Survey. Measurements are from Mean Sea Level.

## OAHU PEAKS.

	<i>feet.</i>		<i>feet.</i>
Kaala .....	4030	Telegraph Hill or Kaimuki.....	292
Palikea, Waianae M'ts. ....	3111	Koko Head, higher crater.....	1206
Konahuanui Peak, S. of Pali....	3106	Koko Head, lower crater.....	644
Lanihuli Peak, N. of Pali.....	2780	Makapuu, east point of island....	665
Tantalus or Puu Ohia.....	2013	Mokapu, crater off Kaneohe .....	696
Ohmpus, above Manoa.....	2447	Olamana, sharp peak in Kailua....	1643
Round Top or Ualakaa.....	1049	Maelieli, sharp peak in Heeia....	713
Punchbowl Hill or Puowaina....	498.5	Ohulehule, sharp peak in Hakipuu..	2203
Diamond Head or Leahi.....	762		

## LOCALITIES NEAR HONOLULU.

Nuuanu Road, corner School Street.....	40
Nuuanu Road, second bridge.....	77
Nuuanu Road, corner Judd Street.....	137
Nuuanu Road, cemetery gate.....	162
Nuuanu Road, mausoleum gate.....	206
Nuuanu Road, Schaefer's gate.....	238
●Nuuanu Road, Queen Emma's.....	358
Nuuanu Road, Woodlawn Dairy corner.....	429
Nuuanu Road, large bridge.....	735
Nuuanu Road, Luakaha gate.....	847
Nuuanu Road, Pali.....	1207

## MAUI.

	<i>feet.</i>		<i>feet.</i>
Haleakala.....	10032	Haleakala School.....	2150
West Maui, about.....	5820	Puu Nianiau, Makawao.....	6850
Piiholo, Makawao.....	2256	Puu Kapuai, Hamakua.....	1150
Puu Io, near Capt. Makee's.....	2841	Puu o Umi, Haiku.....	629
Capt. Makee's, about.....	1800	Puu Pane, Kula.....	2568
Puu Olai, (Miller's Hill).....	355	Lahainaluna Seminary.....	600
Makawao Female Seminary.....	1900	Kauiki, Hana.....	392
Grove Ranch, Makawao.....	981	Paia, Makawao.....	930

## HAWAII.

	<i>feet.</i>		<i>feet.</i>
Mauna Kea.....	13805	Waimanu in mountain.....	4000
Mauna Loa.....	13675	Hilali.....	1700
Hualalai.....	8275	Parke.....	3505
Kohala Mountain.....	5505	Hono.....	1100
Kilauea Volcano House.....	4040	Lower edge forest, Hamakua.....	1700
Kulani, near Kilauea.....	5576	Lower edge forest, Hilo.....	1200
Kalaieha.....	6450	Laupahoehoe Pali.....	385
Aahuwela, near Laumaia.....	7750	Maulua Pali.....	406
Hitchcock's Puakala.....	6325	Kauku Hill.....	1964
Ahimo'a.....	7035	Puu Alala.....	762
Waimea Court House.....	2669.6	Halai Hill.....	345
Waipio Pali, on N. side.....	1200	Puu o Nale, Kohala.....	1797
Waipio Pali, on S. (Road).....	900	E. Bond's, Kohala.....	585
Waipio Pali, in mountain.....	3000	Anglican Church, Kainaliu.....	1578
Waimanu, at sea.....	1600		

## INTERNAL TAXES FOR BIENNIAL PERIODS, 1862-1886.

REAL ESTATE.	PERSONAL PROPERTY.	FOLL.	HORSES.	MULES.	DOGS.	CARRIAGES	SEAMEN.	ROADS.	SCHOOL.	TOTALS.
1862—\$ 17,063	\$ 12,090	\$32,965	\$ 52,842	\$2,691	\$11,018	\$ 1,294	\$ 2,441	.....	.....	\$133,236*
1864—18,877	12,669	32,561	52,326	3,080	10,038	1,384	1,872	.....	.....	131,729*
1866—20,173	16,336	30,870	60,290	4,265	12,016	1,748	4,557	.....	.....	150,661*
1868—22,300	20,197	30,086	61,541	4,823	12,954	2,125	10,212	.....	.....	277,756
1870—23,532	22,888	28,830	60,027	5,109	15,430	2,400	8,268	54,260	58,096	275,618
1872—52,353	45,329	27,841	53,006	6,140	22,271	3,125	5,894	51,740	55,414	323,115
1874—53,892	42,707	27,620	50,088	6,073	20,236	3,490	3,296	51,156	53,756	312,312
1876—58,645	47,988	27,372	49,194	6,012	18,676	3,987	3,056	50,852	54,004	318,791
1878—61,584	94,378	28,722	47,564	3,053	16,465	4,805	2,114	68,016	62,336	420,097
1880—143,716	155,944	35,484	43,399	.....	15,172	5,780	815	64,940	82,426	547,576
1882—187,923	208,096	45,998	42,819	.....	13,865	7,125	642	90,041	100,762	728,470
1884—223,103	254,286	52,964	22,975	.....	13,924	8,750	402	103,054	118,842	797,297
1886—227,195	262,397	61,745	+	.....	13,315	10,635	114	118,250	115,298	868,865

\* Not inclusive of Road and School Tax. † Included in Personal Property.

## ANNUAL INTERNAL TAXES, FROM 1876.

1876, Taxes Collected,.....	\$162,880.	Tax per capita*.....	\$2.84	1881, Taxes Collected,.....	\$367,004.	Tax per capita*.....	\$5.18
1877, " " " "	319,628.	" " " "	3.86	" " " "	379,071.	" " " "	5.29
1878, " " " "	245,387.	" " " "	4.23	" " " "	417,794.	" " " "	5.16
1879, " " " "	290,380.	" " " "	4.58	" " " "	409,000.	" " " "	5.07
1880, " " " "	317,872.	" " " "	4.76	" " " "	432,656.	" " " "	5.09

\* Omitting fractions.

## COMPARATIVE TABLE OF RECEIPTS AND EXPENDITURES, 1876-78 TO 1886-88.

REVENUE.	1876-78.	1878-80.	1880-82.	1882-84.	1884-86.	Estimated 1886-88.
	\$	\$	\$	\$	\$	\$
Custom House.....	361,377	532,846	719,245	944,638	986,417	1,200,000
Internal Commerce.....	85,807	122,946	141,744	178,149	194,172	225,000
Internal Taxes.....	331,163	465,252	596,615	680,397	696,869	699,200
Fines, Fees, Perquisites, etc.....	132,600	190,265	99,986	233,710	96,490	205,550
Government Realizations.....	153,572	318,527	393,586	374,291	684,749	501,000
Government Stocks.....	87,200	23,900		668,900		
From Loans.....						311,866
Japanese Fund.....						28,092
Crown Commissioners.....				12,000	12,000	
Cash in the Treasury April 1, 1886.....						9,174
Totals.....	\$ 1,151,713	\$ 1,703,736	\$ 2,050,276	\$ 3,092,085	\$ 3,010,655	\$ 2,839,924
EXPENDITURES.	1876-78.	1878-80.	1880-82.	1882-84.	1884-86.	Estimated 1884-86.
	\$	\$	\$	\$	\$	\$
Civil List.....	76,000	65,500	100,000	148,500	127,931	143,000
Permanent Settlement.....	14,025	15,075	19,512	20,347	14,028	17,000
Legislature and Privy Council.....	22,080	16,523	19,338	24,942	31,455	50,300
Judiciary Department.....	71,743	79,667	92,870	115,892	129,057	178,500
Department of War.....	54,642	67,993				
Department of Foreign Affairs.....	32,036	36,830	129,353	252,641	222,678	320,848
Department of Interior.....	370,220	656,810	1,204,703	1,824,795	1,162,126	2,246,251
Department of Finance.....	244,387	260,057	299,436	319,062	566,569	841,242
Department of Attorney-General.....	95,861	123,664	163,527	266,730	279,872	290,366
Bureau of Public Instruction.....	71,721	79,605	84,249	91,755	151,693	203,020
Board of Health.....					241,470	261,150
Miscellaneous.....	46,757	93,973	169,608	151,742	61,843	
Totals.....	\$ 1,110,472	\$ 1,495,697	\$ 2,282,596	\$ 3,216,406	\$ 2,988,722	\$ 4,551,677

\*Merged into Department of Foreign Affairs. † Indemnity Account for Sundry Expenditures.

## REVENUES AND EXPENDITURES, HAWAIIAN KINGDOM.

For each Biennial Period, from 1856-57 to 1886-88.

PERIODS.	RECEIPTS.	EXPENDITURES	DEFICIT.	SURPLUS.
1856-7 .....	\$ 639,041 37	\$ 666,788 83	\$ 27,747 46	.....
1858-9 .....	655,866 68	643,098 40	.....	\$ 12,768 28
1860-1 .....	668,186 56	681,821 48	13,634 92	.....
1862-3 .....	688,687 21	666,061 10	.....	22,626 11
1864-5 .....	728,817 07	582,341 02	.....	146,476 05
1866-7 .....	831,148 98	834,157 55	3,008 57	.....
1868-9 .....	834,112 65	934,100 29	99,987 64	.....
1870-1 .....	964,956 35	969,784 14	5,827 79	.....
1872-3 .....	1,136,523 95	1,192,511 79	55,987 84	.....
1874-6 .....	1,008,191 85	919,356 93	.....	88,834 92
1876-8 .....	1,151,713 45	1,110,472 90	.....	41,240 55
1878-80 .....	1,703,736 00	1,495,697 00	.....	208,039 00
1880-82 .....	2,070,256 94	2,282,599 00	212,319 06	.....
1882-84 .....	3,092,085 42	3,216,406 05	124,320 63	.....
1884-86 .....	3,010,654 61	2,988,722 37	.....	21,932 24
1886-88* .....	2,839,924 85	4,552,477 16	1,712,552 31	.....

\* Estimated.

### APPROPRIATION BILL FOR THE BIENNIAL PERIOD ENDING MARCH 31, 1888.

## CIVIL LIST.

His Majesty's Privy Purse and Royal State .....	\$ 50,000
Her Majesty the Queen .....	17,000
H. R. H. the Heir Presumptive .....	16,000
H. R. H. Princess Likelike .....	12,000
H. R. H. Princess Kaiulani .....	6,000
His Majesty's Chamberlain and Secretary .....	7,000
Household Expenses .....	35,000

## PERMANENT SETTLEMENTS.

H. R. H. Princess Poomaikelani .....	7,000
Hon. W. C. Parke .....	2,400
Hon. A. Fornander .....	2,400
T. W. Everett .....	2,400
Widow of the late J. E. Barnard .....	600
Hon. H. Kuihelani .....	2,400
Mrs. P. Nahaolelua .....	600

## LEGISLATURE AND PRIVY COUNCIL.

Expenses of Legislature of 1886 .....	50,000
Secretary of the Privy Council .....	200
Incidentals of the Privy Council .....	100

## JUDICIARY DEPARTMENT.

Salary of Chief Justice and Chancellor.....\$	12,000
First Associate Justice.....	10,000
Second Associate Justice.....	10,000
Third Associate Justice.....	10,000
Fourth Associate Justice.....	10,000
Clerk of Supreme Court.....	6,000
Deputy Clerk of Supreme Court.....	4,000
Second Deputy Clerk of Supreme Court.....	3,000
Interpreter, Supreme and Police Courts.....	4,800
Circuit Judge, Maui.....	4,000
Traveling Expenses of ditto.....	300
Salary of Circuit Judge, Hilo and Kau.....	2,400
Traveling Expenses of the same.....	200
Salary Circuit Judge, Kohala, Kona, etc.....	2,400
Traveling Expenses of the same.....	200
Salary Circuit Judge, Kauai.....	4,000
Traveling Expenses of the same.....	100
Salary Police Judge, Honolulu.....	7,200
Police Judge, Hilo.....	3,000
Police Judge, Lahaina.....	2,400
Police Judge, Wailuku.....	3,600
District Judge, N. Hilo.....	1,000
District Judge, Puna.....	800
District Judge, West Kau.....	1,200
Second District Judge, E. Kau.....	800
District Judge, N. Kona.....	1,200
District Judge, S. Kona.....	1,000
Police Justice, N. Kohala.....	2,400
District Judge, S. Kohala.....	1,200
District Judge, Hamakua.....	2,000
District Judge, Honuaula.....	1,000
District Judge, Makawao.....	2,400
District Judge, Hana.....	1,800
District Judge, Lanai.....	800
District Judge, Molokai.....	1,800
District Judge, Ewa.....	800
District Judge, Waianae.....	800
District Judge, Waialua.....	1,000
District Judge, Koolauloa.....	1,000
District Judge, Koolaupoko.....	2,000
District Judge, Hanalei.....	1,000
District Judge, Kawaihau.....	1,000
Police Justice, Lihue.....	1,800
District Justice, Koloa.....	1,000
District Justice, Waimea.....	1,000
Clerk, Second Judicial Circuit.....	600
Clerk, Third Judicial Circuit.....	1,000
Clerk, Fourth Judicial Circuit.....	600



Expenses of Supreme Court.....	\$ 10,000
Expenses of Circuit Courts and Witnesses in Criminal Cases.....	10,100
Purchase of Law Books.....	1,000
Stationery and Incidentals.....	3,000
Translating and printing Hawaiian reports in the Hawaiian and English languages.....	10,000
Compiling and printing laws in Hawaiian under the authority and direction of the Supreme Court.....	4,000
Pay of Clerk, Police Court, Honolulu.....	2,400
Pay of Chinese Interpreter and Translator.....	3,000
Pay of Messengers, Judiciary Department.....	2,400

## DEPARTMENT OF FOREIGN AFFAIRS.

Salary of Minister.....	12,000
Salary of Secretary.....	6,000
Pay of extra clerks, copying clerk and for translations.....	2,400
Purchase current Hawaiian Literature to be placed in the Library.....	150
Salary of Librarian and Curator.....	3,000
Messenger and Janitor.....	600
Salary of Messenger.....	1,200
Salary of Envoy to Washington.....	12,000
Clerical Aid and Expenses of Legation at Washington.....	6,000
Expenses of Foreign Missions.....	35,000
Reception of Official Guests.....	6,000
Expenses of Foreign Agents.....	6,000
Incidentals, Foreign Office.....	4,000
Education of Hawaiian Youths Abroad.....	30,000
Relief and Return of Indigent Hawaiians from Abroad.....	1,000
National Museum.....	4,000
National Library.....	2,000
King's Guard.....	80,244
Band, Flags and Salutes.....	40,000
Aid to the Volunteer Companies and purchase of Arms and Ammunition for the Military Forces.....	46,254
Military and Naval Organization and Staff, as provided by Act.....	21,000
Military Engineer.....	2,000

## INTERIOR DEPARTMENT.

Salary of Minister.....	12,000
Chief Clerk.....	6,000
Second Clerk.....	3,600
Third Clerk.....	4,000
Fourth Clerk.....	3,600
Fifth Clerk.....	2,400
Sixth Clerk.....	2,400

Salary of Governor of Oahu.....	\$ 3,600
Governor of Maui.....	3,600
Governor of Hawaii.....	4,000
Governor of Kauai.....	4,000
Clerk to Governor of Oahu.....	2,400
Clerk to Governor of Maui.....	2,000
Clerk to Governor of Hawaii.....	2,000
Clerk to Governor of Kauai.....	1,600
Jailor of Oahu Prison.....	3,600
Salaries of Keepers of Mausoleums.....	4,320
Back Salaries due under Law to Mitigate.....	5,200
Guards to Government Building and Jail.....	10,000
Relief of Crown Commissioners.....	9,613
Payment of Sundry bills for Coronation and repairs....	22,867

## BUREAU OF POST OFFICE.

Salary of Postmaster-General.....	8,000
Salary of Deputy Postmaster-General.....	6,000
Pay of Clerks in the Post Office.....	26,000
Pay of Postmasters.....	18,000
Pay of Mail Carriers.....	28,000
Postal Money Order Fund.....	3,000
Incidentals of Post Office.....	16,000
Outstanding Claims against Post Office.....	8,000

## BUREAU OF SURVEYING.

Salary of Surveyor-General.....	8,000
Expenses, Bureau of Surveying.....	40,000

## BUREAU OF HONOLULU WATER WORKS.

Salary of Superintendent of Water Works and Clerk of Market.....	4,800
Salary of First Clerk of Water Works.....	3,000
Salary of Second Clerk of Water Works.....	1,800
Running Expenses of the Honolulu Water Works.....	6,000
Repairs and Additions to Water Works.....	75,000

## BUREAU OF FORESTRY.

Maintenance of Nurseries.....	12,000
Thomas Square.....	3,000
Emma Square.....	700
Aid to Royal Hawaiian Agricultural Society.....	1,000
Aid to Kapiolani Park Association.....	5,000

## BOARD OF IMMIGRATION.

Salary of Inspector-General.....	6,000
Salary of Japanese Inspectors and Interpreters.....	4,000

Salary of Secretary of Board of Immigration.....\$	1,200
Incidentals .....	1,500
Encouragement of Immigration.....	150,000

## BUREAU OF PUBLIC IMPROVEMENTS.

Salary of Superintendent of Public Works and Civil Engineer	6,000
Traveling Expenses, Stationery and Incidentals of Bureau...	500
Completion of New Police Court Building, Honolulu.....	26,000
Alterations and Repairs of Post Office, Honolulu.....	7,500
Repairs of Custom House, Honolulu.....	8,000
Repairs and Furniture, Aliiolani Hale.....	6,500
Office and Safe for Governor of Kauai.....	2,000
Cost of Building Saluting Battery at Kakaako.....	4,500
Repairs and Furniture, Iolani Palace.....	8,500
Repair of Palace Wall and Improvement of Grounds.....	5,000
Palace Stables.....	15,000
Repairs Government Building—contingent.....	10,000
New Custom House Warehouse, Honolulu.....	8,000
Court House and Lock-up at Koolauloa.....	1,500
Court House and Lock-up at North Kona.....	1,500
Enlarging Court House and Lock up at Hana.....	500
Repairing Jail and Court House fence, Waimea, Hawaii....	500
Fence around Court House at Kapaa, Kauai.....	100
Court House at E. Kau.....	500
Lock-up at Honuaula, Maui.....	600
Repairs to Court Houses and Lock-ups, District of Hilo, and building Receiving Station at Hilo.....	3,000
Repairs Court Houses and Jails, North Kohala.....	1,000
Safe, Cupboard, etc., Court House, Waialua.....	200
Jails at Waipio and Honokaa.....	1,000
Expenses moving Court House from Makawao and putting it up at Paia.....	1,000
Repairs to Court House and Jail, Wailuku.....	5,000
Preliminary Surveys and Estimates for Water Supply at Wai- luku and Kahului.....	1,000
Laying Water Pipes at Lahaina.....	3,000
Laying Water Pipes at Hilo.....	15,000
Water Pipes for Wailuku and Kahului.....	10,000
Wharves—contingent.....	10,700
New Wharves and Repairs.....	40,000
Government aid for building wharf at Honuapo, provided the owners thereof make no charge for wharfage on freight or passengers.....	5,000
Wharf at Hookena, Hawaii.....	3,000
Enlarging Landing and Wharf at Lahaina.....	4,000
Repairs and improvements to landing at Makena, Maui....	500
Landing at Hamoa, Maui.....	500
Wharf at Keauhou, Kona.....	2,500

Repairs to landings outside of Honolulu Harbor—contingent fund .....	\$ 5,000
Wharf at Pukoo, Molokai .....	2,000
Landings at Napoopoo and Hoopuloa, Kona .....	800
Landing at Kailua, Hawaii .....	1,000
Wharf at Kaunakakai, Molokai .....	2,000
Landing and wharf at Kamalo, Molokai .....	1,800
Landing at Waimanalo, Oahu .....	1,000
Improvements to Landing, Heeia, Koolaupoko .....	1,000
Landing at Waimea, Kauai .....	2,000
Landing at Mokulau, Hana .....	500
Landing at Kula, Puna .....	500
Ookala Landing, to be paid Ookala Sugar Co. ....	1,000
Anchors and Buoys .....	3,000
New Lighthouse, Honolulu Harbor .....	4,000
New Lighthouse, Makena, Maui .....	500
New Lighthouse, Makahanaloa Point, Hilo .....	1,600
New Lighthouse, Barber's Point .....	3,000
Repairs and Running Expenses of Lighthouses .....	12,000
Purchase of steam tug "Eleu" .....	39,839
Running Expenses of Steam Tug .....	15,000
Steam Launch .....	5,000
Dredging Honolulu Harbor .....	40,000
Lighting City of Honolulu by Electric Light .....	35,000
Inter-Island Cable Communication .....	65,000
Purchase of Government Steam Vessel .....	100,000
Running Expenses of Government Steam Vessel .....	50,000

## BUREAU OF ROADS AND BRIDGES.

Pay of Road Supervisors .....	18,000
Road Tax unexpended to be expended in districts where collected as follows :	

## HAWAII.

District of Hilo .....	4,365
Puna .....	116
Kau .....	10,269
S. Kona .....	524
N. Kona .....	2,444
S. Kohala .....	433
N. Kohala .....	11,511
Hamakua .....	3,518

## MAUI.

District of Lahaina .....	1,779
Wailuku .....	13,888
Makawao .....	8,672
Hana .....	2,000
Island of Molokai .....	2,177
Island of Lanai .....	16

## OAHU.

District of Kona .....	2,988
Ewa and Waianae .....	1,860
Waialua .....	430
Koolauloa .....	1,670
Koolaupoko .....	1,827

## KAUAI.

District of Lihue .....	4,348
Koloa .....	3,199
Kawaihau .....	921
Hanalei .....	2,281
Waimea .....	1,000
Island of Niihau .....	248
Road Tax, 1886-1887, to be expended in the districts where collected .....	120,000
Road Damages and Improvements of Roads .....	275,000

## ROADS AND BRIDGES, ISLAND OF HAWAII.

Roads, District of Puna .....	2,000
Kau .....	3,000
South Kona .....	2,000
North Kona .....	2,000
Roads, District of Kawaihae, S. Kohala .....	2,000
Kawaihae-uka .....	1,000
Bridge over Waiaka stream, S. Kohala .....	500
Roads and Bridges, Hamakua .....	6,000
N. Kohala .....	3,000
District of Hilo .....	20,000
Wharf at Hilo .....	5,000
Bridge at Kaiwilahilahi, Hilo .....	600
Landing at Laupahoehoe .....	1,000

## ISLAND OF MAUI.

Roads in Hana .....	5,000
Landing at Keanae .....	500
Roads in Makawao .....	4,000
Roads in Wailuku .....	3,000
Roads in Lahaina .....	2,500
Wharf at Olowalu .....	500
Bridge at Honokohau .....	3,000
Roads in Kaanapali .....	2,500
Survey of Roads from Lahaina to Wailuku by the seashore ..	1,500
Bridge at Waihee .....	1,500

## ISLANDS OF MOLOKAI AND LANAI.

Read from Kalawao to Kalaupapa .....	2,000
Bridge at Halawa, Molokai .....	800
Roads on Molokai, including the Wailau and Pelekunu Roads ..	2,500
Roads on Lanai .....	\$ 2,000

## ISLAND OF OAHU.

Road from Reformatory School to Insane Asylum.....	\$ 1,000
Roads in Manao Valley.....	1,500
Widening and Straightening Pauoa Valley.....	1,500
Liliha Street.....	1,200
Road to Iwilei.....	1,000
Road on East side of Kalihi Valley.....	3,000
Road from Kamoiliili to Maunalua.....	2,000
Improvement of Road, Kalihi to Moanalua.....	1,000
Extension of Baretania Street through Kamoiliili to Kapio- lani Park.....	5,000
Roads in Ewa.....	5,000
Roads in Waialua.....	4,400
Roads, Breakwaters and Bridges, in Koolauloa.....	7,000
Breakwater at Kaalaea.....	6,000
Roads in Koolaupoko.....	5,000
Road over the Nuuanu Pali.....	75,000

## ISLAND OF KAUAI.

Road from Waioli to Haena.....	1,000
Bridge at Lumahai.....	5,000
Bridge at Kapaa.....	4,000
Road from Hanapepe to Mana.....	1,500
Breakwater in Stream at Waimea.....	2,000
Roads in Hanalei.....	1,500
Roads in Kawaihau.....	1,500
Roads in Lihue.....	1,500
Roads in Koloa.....	1,500
Roads in Waimea.....	1,500
Road from Nawiliwili to Kalapaki and Hanamaulu.....	200
Roads in Niihau.....	500
Raising the Bridge at Anahola.....	500
Contract for Rebuilding Waimea Bridge, Kauai.....	6,650
Completing the Bridge at Waikolu, Kauai.....	500

## MISCELLANEOUS.

Roads and Bridges—contingent.....	10,000
Bridge and Grading Punchbowl Street.....	4,000
Bridge and Grading Kinau Street.....	5,000
Opening Road from Kamakela to Smith's Bridge.....	2,000
Bridges, Kauai, balance due Estate J. G. Hayselden.....	6,678
Sundry Rents.....	7,097
Pay of Messengers, Interior Department.....	2,400
Incidentals, Interior Office.....	3,000
Incidentals, Governor's Office.....	500
Government Printing.....	10,000
Purchase of Lunalilo lot, adjoining Aliiolani Hale.....	3,000

Books and Stationery for Registrar of Conveyances.....	\$ 300
Queen's Hospital.....	12,000
Expenses Filing Certificates of Boundaries.....	200
Expenses of Election of Representatives, including pay of W. L. Hao, Clerk of Election.....	1,000
Aid to Honolulu Sailor's Home Society.....	5,000
Encouragement of Ramie Culture, to be paid planters of ramie at the rate of \$50 per acre for ramie ready to be cleaned.....	5,000
Encouragement to the manufacture of ramie, to be paid at the rate of \$200 for each ton to the owner or owners of the machine or machines that will best prepare the ra- mie for the market, at the lowest cost to the producer.	5,000
Hawaiian Ramie Company for Cultivation of Ramie.....	2,500
Repairs of Mausoleums, by tender.....	2,437
Purchase of Lands, Kalawao, Molokai.....	5,000
Janitor, Aliiolani Hale.....	1,200
Pay of Keeper and Incidentals Honolulu Market.....	1,000
Support of Prisoners.....	50,000
Pay of Physicians, Management of Jail, etc.....	35,000
Road Damages by the opening of the Kamehameha Road..	500
Maintenance of Insane Asylum.....	20,000
Repairs of Insane Asylum.....	5,000
Honolulu Fire Department.....	40,000
Indemnity to Charles B. Wilson.....	5,000
Quarantine of Diseased Animals.....	5,000
Board of Genealogy of Hawaiian Chiefs.....	12,500
Wharf at Nawiliwili.....	800
Water Pipes for Waiohinu, Kau.....	500
Water Pipes at Kalaupapa, Molokai.....	15,000
Wharf at Waimea, Kauai.....	2,000
Repairs to Wharf at Waianae, Oahu.....	2,000
Extension of Queen Street to Waikiki.....	6,000
Purchase of New Books, Honolulu Library.....	1,200
Aid to Hon. A. Fornander in publishing "Polynesian Race"	2,500
Purchase of Manuscripts of Hawaiian and Polynesian Litera- ture from the Hon. A. Fornander.....	2,500
Aid to Thos. Spencer in publishing "Lives of Eminent Men," in Hawaiian.....	250
Diamond Head Signal Station.....	1,600
Perfecting Government Title to the Ground at Fish Market and adjoining Lots.....	5,000
Illuminating Clock at Lucas' Shop.....	180
Encouragement of the Cultivation of Cinchona in the Dis- trict of Hamakua.....	3,500
Expense of Lighting the Streets throughout the Kingdom...	17,000
Buoys and Landmarks to enable Vessels to enter the harbor of Kapuuiki, Waialua.....	500

Subsidy for services in running between Lanai, Maui and Molokai, during the past biennial period, as follows:	
To steamer "Jas. I. Dowsett".....	1,200
To the steamer "Mokolii".....	4,000
Subsidy to steamer to run between Honolulu, Kalaupapa, Pukoo, Lahaina and Lanai, and to touch regularly at ports on the way.....	
M. Kealoha, refund for price of land.....	5,200
Payment of Bills incurred by Cabinet Relief Committee to Relieve Sufferers by late fire (April 18th).....	65
Payment of Bill to Conchee for Road Work, Kawaihau, Kauai.....	6,836
● New Kerosene Warehouse.....	426
Celebration of His Majesty's Birthday.....	1,200
Hospital Fund (estimated receipts) all receipts to be paid to Queen's Hospital.....	15,000
	15,000

## FINANCE DEPARTMENT.

Salary of Minister.....	12,000
Auditor-General.....	10,000
Registrar of Public Accounts.....	6,000
● Clerk, Finance Office.....	3,600
Pay of Tax Assessors.....	33,000
Tax Collectors.....	31,000
Tax Appeal Boards.....	1,500
National debt falling due.....	267,900
Interest on National debt.....	255,000
Incidentals.....	6,000
Printing Certificates of Deposit.....	2,000
Stamps and Dies.....	500
Dog Tags.....	1,000
Messenger.....	1,440
Japanese Immigration Fund, to be transferred to Postal Savings Bank.....	45,232
Interest on Japanese Fund.....	3,000
Salary of Collector-General.....	8,000
Deputy Collector.....	6,000
Harbor Master, Oahu.....	6,000
Statistical Clerk.....	3,600
Port-Surveyor, Oahu.....	3,000
Storekeeper.....	4,800
Assistant Storekeeper.....	2,400
Second Statistical Clerk.....	3,000
Third Statistical Clerk.....	2,400
Entry Clerk.....	3,000
Second Entry Clerk.....	2,400
Collector, Kahului.....	3,600
Collector, Hilo.....	3,600



Salary of Collector, Mahukona.....	\$ 3,600
Collector, Kawaihae.....	100
Collector, Koloa.....	100
Collector, Kealahou.....	100
Port Surveyor, Kahului.....	2,400
Storekeeper, Kahului.....	1,200
Port Surveyor, Hilo.....	2,000
Keeper, Kerosene Warehouse.....	2,000
Assistants Guards at all Ports.....	16,000
Additional Aid for Assistant Guards at all Ports.....	4,000
New Kerosene Warehouse.....	1,200
Custom House Boat.....	1,200
Incidentals, Customs Bureau.....	5,000
Subsidy to Oceanic Steamship Co.....	72,000
Return of Taxes and balance due Assessors.....	566

## ATTORNEY-GENERAL'S DEPARTMENT.

Salary of Attorney-General.....	12,000
Chief Clerk of Attorney-General.....	6,000
Marshal.....	8,000
Clerk of Marshal.....	4,000
Second Clerk of Marshal.....	2,400
Sheriff of Maui.....	5,000
Sheriff of Hawaii.....	5,000
Sheriff of Kauai.....	4,000
Clerk, Sheriff of Maui.....	1,800
Clerk, Sheriff of Hawaii.....	1,800
Clerk, Sheriff of Kauai.....	1,000
Police of Oahu.....	100,000
Balance due William Tell.....	240
Back Pay, F. W. Felhbehr.....	240
Relief of ex-Marshal, John H. Soper.....	362
Police of Maui.....	44,280
Police of Hawaii.....	59,280
Police of Kauai.....	20,280
Coroner's Inquests.....	2,000
Incidentals, Criminal and Civil Expenses.....	10,000
Messenger.....	1,200
Indebtedness of Dep't. accrued prior to March 31st.....	1,483

## BOARD OF EDUCATION.

Salary of Inspector-General of Schools, or Pay of Inspector of Schools, including Traveling Expenses.....	7,000
Salary of Clerk of Board of Education.....	6,000
Support of Hawaiian and English Schools, and Common Schools.....	115,000
Industrial and Reformatory School.....	20,000

Buildings and Repairs to same.....	\$ 5,000
Building and Repairs of School Houses.....	15,000
Repairs and Improvements to Boarding Schools.....	20,000
Stationery and Incidentals.....	800
Pay of Messenger and Office Assistant.....	2,100
Printing English-Hawaiian Dictionary.....	1,500
Compiling School History of the Hawaiian Islands, and Printing and Binding the same.....	2,500
Nine Scholarships at Oahu College or any department thereof	720
Professor of Chemistry and Natural Science, Oahu College..	2,400
• Technical Instruction, etc.....	5,000

## BOARD OF HEALTH.

Secretary of Board of Health.....	6,000
Lepor Settlement.....	100,000
General Expenses of Board of Health.....	25,000
Repairs and Maintenance of Hospitals.....	40,000
Repairs and care of Quarantine.....	4,000
Kapiolani Home.....	8,000
• S. H. Meekapu.....	150
Salary District Physicians.....	50,000
Physician at Lepor Settlement, to reside there permanently..	10,000
Medicines to be distributed gratuitously.....	18,000

## RECAPITULATION.

Civil List.....	\$ 143,000
Permanent Settlements.....	17,800
Legislature and Privy Council.....	50,300
Judiciary Department.....	178,500
Department of Foreign Affairs.....	320,848
Interior Department.....	2,246,251
Finance Department.....	841,242
Department of the Attorney-General.....	290,366
Department of Education.....	203,020
The Board of Health.....	261,150
Grand Total.....	\$4,552,477

## HAWAIIAN CUSTOMS TARIFF.

Compared with recent laws, and revised.

## FREE IMPORTS BY CIVIL CODE.

- Animals, birds, bees, intended for improving the breeds.
- Bags and containers (old) returned, when accompanied by certificate of Hawaiian consul.
- Books printed in Hawaiian.
- Catechu, (see tanning) Coals, copper sheathing and all descriptions of sheathing metal.
- Diplomatic Representatives.—All goods imported for their private use and consumption.
- Foreign Navies.—All supplies when imported and used as such.
- Foreign Whalers.—Merchandise imported by them in accordance with the provisions of sec. 569 of the civil code.
- Gold and silver coins.
- His Majesty.—All goods or other articles imported for his use.
- Hawaiian Government.—All goods or other articles imported for the use of the several departments of the government.
- Hawaiian Whalers.—Oil, bone, fish or other products of the sea, being the catch of duly registered Hawaiian vessels.
- Household effects, old and in use, of persons arriving from abroad. Also the effects, not merchandise, of Hawaiian subjects dying abroad.
- Iron.—All pig iron and plate iron of  $\frac{1}{8}$  of an inch in thickness and upwards.
- Models of inventions, if not fitted for use.
- Oak bark. (See tanning.)
- Oil, bone, &c. (See Hawaiian whalers.)
- Plants and seeds, when not intended for sale.
- Philosophical, chemical and other apparatus for the use of schools and colleges.
- Returned cargo, being merchandise exported to a foreign country and brought back in the same condition as when exported, accompanied by certificate of Hawaiian consul.
- Specie. (See gold and silver coins.)
- Specimens of botany, mineralogy, geology and other natural sciences imported for the use of schools and colleges.
- Tanning, certain material used in.—Oak bark, catechu and other substances containing "tannin."
- Tools of trade, professional books and implements in actual use of persons from abroad.
- Yellow metal, (see copper).]

## FREE IMPORTS FROM THE UNITED STATES BY TREATY.

[When properly certified to before the Hawaiian Consul at the nearest port of shipment.]

Agricultural implements ; animals.

Bacon ; bags, ( cotton or textile manufactures); beef ; bells ; books ; boots and shoes ; bran ; bricks ; bread and breadstuffs of all kinds ; bras cocks ; brushes ; bullion ; butter.

Cement ; cheese ; coal ; cordage ; copper and composition sheathing ; cotton and manufactures of cotton, bleached and unbleached, and whether or not colored, stained, painted or printed ; clocks, if without glass and of wood ; cutlery.

Doors, sashes and blinds.

Edging, embroidery, (if of cotton); eggs ; engines and parts thereof.

Fish and oysters, and all creatures living in the water, and the products thereof ; fruits, nuts, and vegetables, green, dried or undried, preserved or unpreserved ; flour, furs.

Grain ; gloves, gimps, girdles (if of cotton) ; guns and pistols (unless mounted in ivory, rubber or nickel).

Ham ; hardware ; harness ; hay ; hides ; dressed or undressed ; hoop iron.

Ice ; iron and steel, and manufactures thereof ; nails ; spikes and colts ; rivets, brads or sprigs ; tacks.

Lanterns (without glass) ; lard ; leather, and all manufactures thereof ; lumber and timber of all kinds, round, hewed, sawed, and manufactured in whole or in part ; lime.

Machinery of all kinds ; meal and bran ; meats, fresh, smoked or preserved ; mitts (if cotton) ; mattresses (all except hair).

Nails, naval stores ; including tar ; pitch ; resin ; turpentine, raw and rectified. Oats.

Pictures (on paper) ; purses (if of leather) ; picture frames ; parasols and umbrellas (if of cotton) ; paper and all manufactures of paper or of paper and wood ; petroleum ; oils, illuminating or lubricating ; organs ; pianos ; melodens ; plants, shrubs, trees and seeds ; pork.

Rice.

Salt ; shooks ; shoe horns (if of iron or steel) ; skins and pelts, dressed or undressed ; staves and headings ; starch ; stationery ; soap ; Sugar, refined or unrefined.

Tallow ; textile manufactures made of a combination of wool, cotton, silk or linen, or of any two or more of them, other than when ready-made clothing ; toys (when made of wood, or of wood and metal, or iron or steel) ; tobacco, whether in leaf or manufactured.

Wagons and carts for the purposes of agriculture or of drayage ; wood and manufactures of wood, or wood and metal, except furniture either upholstered or carved, and carriages ; wool and manufactures of wool, other than ready-made clothing.

For articles of Hawaiian produce admitted free under treaty into the United States, see page 49.

For full text of the Reciprocity Treaty with the United States, see ANNUAL for 1877.

## DUTIABLE IMPORTS.

Alcohol, and other spirits of the strength of alcohol, per gall. . . .	\$10 00
Alcohol. Provided that security be given that the same is intended for medicinal, mechanical or scientific purposes, upon application in due form, per gall. . . . .	3 00
Ale, porter, beer, cider, and other fermented beverages below eighteen per cent. of alcoholic strength, per dozen reputed quarts . . . . .	40
per dozen reputed pints . . . . .	20
per gallon in bulk . . . . .	15
Ammunition, per cent. ad valorem . . . . .	10
Bitters. (See brandy and wine).	
Brandied fruits. (See brandy).	
Brandy, gin, rum, whiskey, liqueurs, cordials, bitters, brandied fruits, perfumery, and other articles of merchandise, sweetened or mixed, containing alcohol or spirits, of the strength of thirty per cent. or upwards and not exceeding fifty-five per cent. of alcohol, per gallon . . . . .	3 00
Britannia ware and fancy metal ware, per cent. ad val. . . . .	10
Candles, per cent. ad val. . . . .	10
Carriages of all descriptions, per cent. ad val. . . . .	10
Clothing, ready made, and wearing apparel of every description, made up in whole or in part, per cent. ad val. . . . .	10
Crockery and glassware of all descriptions, per cent. ad val. . .	10
Cigars and cheroots, per M. \$10.00 and per cent. ad val. . . . .	25
Cigarettes and paper cigars per cent. ad val. . . . .	25
Coffee. The product of any country with which this government has no existing treaty, per lb. . . . .	03
All other, per cent. ad val. . . . .	10
Cordials. (See brandy and wine).	
Drugs and medicines, patent and other, per cent. ad val. . . . .	10
Fire arms, per cent. ad val. . . . .	10
Furniture of all kinds, if upholstered or carved, manufactured in whole or in part, per cent. ad val. . . . .	10
Gimps for clothing, per cent. ad val. . . . .	10
Gloves and mitts not otherwise provided for, per cent. ad val. . .	10
Gin. (See brandy). Liqueurs. (See brandy).	
Hats and caps of all kinds, per cent. ad val. . . . .	10
Hooks and eyes, per cent. ad val. . . . .	10
Hoop skirts, per cent. ad val. . . . .	10
Insertions, laces and lace goods of all descriptions, per cent. ad val. . . . .	10
Jewelry, and all descriptions of metal, glass or stone beads, per cent. ad val. . . . .	10
Linens, and all manufactures of which flax, grass cloth or a similar material shall form the principal part, per cent. ad val. .	10
Matches of all kinds, per cent. ad val. . . . .	10

Millinery goods, beads, braids, bonnets, buttons, corsets, collars, sleeves and cuffs, edgings, flowers (artificial), feathers (fancy), fringes for clothing and upholstery, per cent. ad val. ....	\$	10
Molasses and syrups of sugar, the product of any country with which this government has no existing treaty, per gall. ....		10
All other, per cent. ad val. ....		10
Opium. (See specific list).		
Paintings, pictures, engravings, statuary, bronzes, ornamental work of metal, stone, marble, plaster of Paris or alabaster, and all imitations thereof, per cent. ad val. ....		10
Perfumery (other than which pays a spirit duty), powders; hair, tooth, nail and other toilet brushes, per cent. ad val. ....		10
• Playing cards, per cent. ad val. ....		10
Ribbons, not otherwise provided for, per cent. ad val. ....		10
Peppermint. (See brandy). Perfumery. (See brandy).		
Porter. (See ale).		
Rice. The product of any country with which this government has no existing treaty, cleaned, per lb. 1½c., in the husk per lb. ....		01
All other, per cent. ad val. ....		10
• Silks, satans and silk velvet, and all articles of which silk shall form the principal material, per cent. ad val. ....		10
Sugar,—the product of any country with which this Government has no existing treaty, per lb. ....		02
All other, per cent. ad val. ....		
Silverplate, plated ware or gilt ware, per cent. ad val. ....		10
Soaps, per cent. ad val. ....		10
Tea, per cent. ad val. ....		10
Toys, per cent. ad val. ....		10
Tobacco (except China) and all manufactures thereof, per cent. ad val. ....		15
Watches and clocks, in whole or in part, per cent. ad val. ....		10
Whiskey. (See brandy).		
Wines. Madeira, sherry, port, in all other wines, cordials and bitters, and all other articles of merchandise containing alcohol, or preserved in alcohol or spirits, above twenty-one per cent. and below thirty per cent. of alcoholic strength, unless otherwise provided for, per gallon. ....		2 00
Wines. Champagne, sparkling moselle and sparkling hock, per dozen reputed quarts. ....		3 00
per dozen reputed pints. ....		1 50
Wines. Claret, Rhine wine and other light wines, bitters and cordials under twenty-one per cent. of alcoholic strength, not otherwise provided for, per dozen reputed quarts. ....		40
per dozen reputed pints. ....		20
per gallon in bulk. ....		15

Upon all other goods, wares and merchandise of whatever description, imported into this kingdom, there shall be levied, collected and paid, a duty of ten per cent. ad valorem, including all charges as per original invoice, except the following :

## SPECIFIC LIST.

China tobacco, per lb . . . . .	\$0 50
Cigarettes and paper cigars, per cent. ad val . . . . .	25
Candies, per cent. ad val . . . . .	25
Camphor trunks, per nest of four . . . . .	2 00
Camphor trunks, per nest of two . . . . .	1 00
China matting, per roll . . . . .	2 00
Kid and all other leather and skin gloves, per dozen pair . . . . .	3 00
Opium . . . 15 per cent. ad val. and \$1.00 per tin of $\frac{1}{2}$ lb each.	
Pipes and pipe fixtures, per cent. ad val . . . . .	25
Peanut oil, per cent. ad val . . . . .	25
Fireworks and fire crackers, per cent. ad val . . . . .	25

All invoices of merchandise, presented at any of the custom houses of this kingdom for entry, must be accompanied by the certificate of the Hawaiian consul at the port of shipment, otherwise 25 per cent. will be added to the original value, and the usual duties levied on the increased value thereof.

## ARTICLES ADMITTED INTO UNITED STATES FREE OF DUTY.

[Under the Reciprocity Treaty, from the Hawaiian Islands, when properly certified to before the U.S. Consul, or Consular Agent at the port of shipment.]

Arrow-root ; bananas ; castor oil ; hides and skins, undressed ; pulu ; rice ; seeds, plants, shrubs or trees ; muscovado, brown, and all other unrefined sugar, commonly known as "Sandwich Island sugar," syrups of sugar cane, melado and molasses ; tallow ; vegetables, dried and undried, preserved and unpreserved.

For list of articles of produce admitted free under the treaty into the United States, see page 18.  
 For full text of the Reciprocity Treaty with the United States, see ANNUAL for 1877.

NOTE.—Copies of the HAWAIIAN ALMANAC AND ANNUAL for 1879 and 1882, are wanted by the publisher to complete sets. Any parties having either year to spare can exchange them for later issues, or can find a purchaser by reporting the same to  
 T. G. THIRUM, Publisher, Honolulu.

## SUGAR PLANTATIONS AND MILLS.

Those marked with an asterisk (\*) are planters only. Those marked with a dagger (†) are mills only. All others are plantations complete owning their own mills.

<i>Plantation.</i>	<i>Location.</i>	<i>Agents.</i>
Pepeekeo Plantation.....	Hilo, Hawaii.....	C Afong
Waimanalo Sugar Co.....	Waimanalo, Oahu.....	C Bolte
Wailuku Sugar Co.....	Wailuku, Maui.....	C Brewer & Co
East Maui Stock Co*.....	Makawao, Maui.....	C Brewer & Co
Onomea Sugar Co.....	Hilo, Hawaii.....	C Brewer & Co
Paukaa Sugar Co.....	Hilo, Hawaii.....	C Brewer & Co
Honomu Sugar Co.....	Hilo, Hawaii.....	C Brewer & Co
Princeville Plantation Co.....	Hanalei, Kauai.....	C Brewer & Co
Hawaiian Agricultural Co.....	Kau, Hawaii.....	C Brewer & Co
Kaneohe Plantation.....	Kaneohe, Oahu.....	C Brewer & Co
Halawa Sugar Co.....	Kohala, Hawaii.....	C Brewer & Co
Papaikou Sugar Co.....	Hilo, Hawaii.....	Castle & Cooke
Kohala Plantation.....	Kohala, Hawaii.....	Castle & Cooke
Waialua Plantation.....	Waialua, Oahu.....	Castle & Cooke
Haiku Sugar Co.....	Haiku, Maui.....	Castle & Cooke
Paia Plantation.....	Paia, Maui.....	Castle & Cooke
Grove Ranch Pln. Co.....	Paia, Maui.....	Castle & Cooke
A H Smith & Co*.....	Koloa, Kauai.....	Castle & Cooke
Union Mill Co†.....	Kohala, Hawaii.....	T H Davies & Co
Kynnersley Bros.*.....	Kohala, Hawaii.....	T H Davies & Co
Niulii Plantation*.....	Kohala, Hawaii.....	T H Davies & Co
Beecroft Plantation*.....	Kohala, Hawaii.....	T H Davies & Co
Hawi Mill & Plantation.....		
Waipunalei Plantation*.....	Hilo, Hawaii.....	T H Davies & Co
Hamakua Plantat'n Co*.....	Hamakua, Hawaii.....	T H Davies & Co
Hamakua Mill Co†.....		
Kukaiiau Mill Co.....	Hamakua, Hawaii.....	T H Davies & Co
Waiakea Plantation.....	Hilo, Hawaii.....	T H Davies & Co
Laupahoehoe Sugar Co.....	Laupahoehoe, Hawaii.....	T H Davies & Co
Kaiwilahlahi Mill.....	Laupahoehoe, Hawaii.....	T H Davies & Co
Hana Plantation.....	Hana, Maui.....	M S Grinbaum & Co
Thompson & Bro.*.....	Kohala, Hawaii.....	M S Grinbaum & Co
Heeia Agricultural Co. L'd.....	Koolau, Oahu.....	M S Grinbaum & Co
J N Wright*.....	Ookala, Hawaii.....	H Hackfeld & Co
R M Overend.....	Honokaa, Hawaii.....	H Hackfeld & Co
Kaluahonu Co*.....	Koloa, Kauai.....	H Hackfeld & Co
W Y Horner*.....	Lahaina, Maui.....	H Hackfeld & Co
Hanamaulu Mill†.....	Hanamaulu, Kauai.....	H Hackfeld & Co



<i>Plantation.</i>	<i>Location.</i>	<i>Agents.</i>
A S Wilcox*	Hanamaulu, Kauai	H Hackfeld & Co
C Borchgrevink*	Waimea, Kauai	H Hackfeld & Co
Koloa Sugar Co.	Koloa, Kauai	H Hackfeld & Co
Grove Farm*	Nawiliwili, Kauai	H Hackfeld & Co
Lihue Plantation*	Lihue, Kauai	H Hackfeld & Co
Kekaha Mill Co†	Kekaha, Kauai	H Hackfeld & Co
Pioneer Mill	Lahaina, Maui	H Hackfeld & Co
Kipahulu Sugar Co.	Kipahulu, Maui	H Hackfeld & Co
R W Meyer	Kalae, Molokai	H Hackfeld & Co
Kukaiuau Plantation*	Hamakua, Hawaii	H Hackfeld & Co
Faye & Meier*	Waimea, Kauai	H Hackfeld & Co
Waimea Sugar Mill†	Waimea, Kauai	H Hackfeld & Co
H J Faye & Co*	Mana, Kauai	H Hackfeld & Co
Waihee Sugar Co.	Waihee, Maui	W G Irwin & Co
Haw'n Com'l & Sugar Co.	Maui	W G Irwin & Co
Makee Sugar Co.	Kealia, Kauai	W G Irwin & Co
Hutchinson Plantation Co.	Kau, Hawaii	W G Irwin & Co
Hilea Sugar Co.	Kau, Hawaii	W G Irwin & Co
Star Mill Co.	Kohala, Hawaii	W G Irwin & Co
Hakalau Plantation Co.	Hilo, Hawaii	W G Irwin & Co
Hilo Sugar Co.	Hilo, Hawaii	W G Irwin & Co
Kilauea Sugar Co.	Kilauea, Kauai	W G Irwin & Co
Pauuhau Plantation	Hamakua, Hawaii	W G Irwin & Co
Olowalu Sugar Co.	Olowalu, Maui	W G Irwin & Co
Ookala Sugar Co.	Ookala, Hawaii	W G Irwin & Co
Makaha Plantation*	Waianae, Oahu	W G Irwin & Co
Waikapu Sugar Co.	Waikapu, Maui	W G Irwin & Co
Reciprocity Sugar Co.	Hana, Maui	W G Irwin & Co
Huelo Mill Co†	Huelo, Maui	W G Irwin & Co
Huelo Plantation*	Hamakua, Maui	W G Irwin & Co
Kamalo Plantation	Molokai	J McColgan
Honokaa Sugar Co.	Hamakua, Hawaii	F A Schaefer & Co
W H Rickard*	Hamakua, Hawaii	F A Schaefer & Co
J Marsden*	Hamakua, Hawaii	F A Schaefer & Co
Paty & Parker*	Hamakua, Hawaii	F A Schaefer & Co
Pacific Sugar Mill†	Hamakua, Hawaii	F A Schaefer & Co
J M Horner & Sons*	Hamakua, Hawaii	F A Schaefer & Co
W H Purvis & Co*	Hamakua, Hawaii	F A Schaefer & Co
Eleele Plantation	Koloa, Kauai	F A Schaefer & Co
Laie Plantation	Laie, Oahu	J T Waterhouse
Gay & Robinson*	Makaweli, Kauai	J T Waterhouse
Waianae	Waianae, Oahu	H A Widemann
Moanui Plantation	Molokai	Wong Leong & Co

EXISTING CORPORATIONS FOR THE PURPOSES OF COMMERCE AND TRADE,  
CHARTERED UNDER THE LAWS OF THE HAWAIIAN KINGDOM.

[From Report of the Minister of Interior, 1886.]

NAME OF CORPORATIONS.	DATE OF CHARTER.	CAPITAL STOCK.	PRESENT CAP. STOCK.	NO. OF SHARES.	CASH VALUE PER SHARE.
Haiku Sugar Co.	Nov. 20, 1885	50	\$ 750,000	1,500	\$ 500
Kohala Sugar Co.	Feb. 3, 1886	25	450,000	900	500
Princeville Plantation Co.	Sept. 15, 1875	20	240,000	2,400	100
Waialeale Sugar Co.	Sept. 15, 1875	20	240,000	2,400	100
Hawaiian Agricultural Co.	Dec. 22, 1876	30	434,000	4,340	100
Honolulu Iron Works Co.	Dec. 22, 1876	20	100,000	200	500
Kapiolani Park Association	Dec. 22, 1876	30	5,000	200	25
Mahee Sugar Co.	30, 1877	30	500,000	5,000	100
Hawaiian Telegraph Co.	March 4, 1878	30	3,000	120	25
Waialeale Sugar Co.	April 15, 1878	50	150,000	1,500	100
Honolulu Sugar Co.	May 8, 1878	45	200,000	100	2,000
Kohala Sugar Co.	Sept. 6, 1878	50	200,000	200	1,000
Oakala Sugar Plantation Co.	March 4, 1879	30	200,000	2,000	100
Wahee Sugar Co.	June 24, 1879	50	200,000	200	1,000
Pacific Sugar Mill	Aug. 19, 1879	50	200,000	2,000	100
Kilauea Sugar Co.	Jan. 31, 1880	50	300,000	300	1,000
Hawaiian Railroad Co.	July 5, 1880	50	1,000,000	2,000	500
Hiloa Sugar Co.	Oct. 2, 1880	30	300,000	600	500
Grove Ranch Plantation Co.	Oct. 2, 1880	50	200,000	200	250
Kauai Telephone Co.	Oct. 2, 1880	20	1,750	175	10
Waianae Co.	Oct. 15, 1880	50	170,000	1,700	100
East Maui Plantation Co.	Dec. 24, 1880	50	144,000	288	500
Hawaiian Bell Telephone Co.	Dec. 30, 1880	50	30,000	1,000	10
Union Mill Co.	March 30, 1880	50	100,000	100	1,000
Sugar Mill Co.	May 14, 1881	25	200,000	400	500
Oahu Sugar Co.	May 5, 1881	50	150,000	1,500	100
Kauai Railroad	July 1, 1881	50	75,000	150	500
Planters' Labor & Supply Co.	March 20, 1882	50	125,000	25,000	5
Hilo & Haw. Telephone & Telegraph Co.	March 20, 1882	50	75,000	750	25
Oahu Sugar Co.	Oct. 20, 1882	50	240,000	24,000	10
Paukua Sugar Co.	Oct. 20, 1882	50	170,000	17,000	10
C. Brewer & Co.	Feb. 7, 1883	50	600,000	6,000	100
Kapipoity Sugar Co.	Feb. 7, 1883	50	100,000	1,000	100
Inter-Island Steam Navigation Co.	Feb. 7, 1883	30	400,000	4,000	100
East Maui Stock Co.	Feb. 22, 1883	50	100,000	1,000	100
Paukua Sugar Co.	June 12, 1883	50	445,000	4,450	100
Hamakua Mill Co.	June 19, 1883	50	240,000	2,400	100
Laupahoehoe Sugar Co.	June 19, 1883	50	600,000	6,000	100
E. O. Hall & Son	July 13, 1883	50	200,000	2,000	100
Waikapu Sugar Co.	July 13, 1883	50	250,000	2,500	100
Halawa Sugar Co.	Aug. 10, 1883	20	100,000	1,000	100
Honolulu Sugar Co.	Aug. 16, 1883	50	200,000	2,000	100
Mutual Telephone Co.	Aug. 16, 1883	50	50,000	5,000	10
Alden Fruit & Taro Co.	Aug. 27, 1883	50	50,000	500	100
Hawaiian Carriage Manufacturing Co.	Oct. 9, 1883	20	100,000	1,000	100
Hunua Sheep Station Co.	Oct. 30, 1883	50	100,000	1,000	100
Pacific Navigation Co.	Nov. 14, 1883	50	150,000	1,500	100
Wilder's Steamship Co.	Nov. 14, 1883	50	450,000	4,500	100
Puuloa Sheep & Stock Ranch Co.	Nov. 15, 1883	50	60,000	600	100
Hawaiian Stone Co.	Nov. 15, 1883	50	10,000	100	100
Hawaiian Cable Co.	Nov. 21, 1883	50	200,000	2,000	100
Kaunaloa Ranch Co.	Nov. 21, 1883	50	100,000	1,000	100
Woodlawn Dairy & Stock Co.	Nov. 23, 1883	50	100,000	1,000	100
Daily Hawaiian	March 20, 1884	50	100,000	10,000	10
Waimea Sugar Mill Co.	Aug. 19, 1884	50	7,000	700	100
Hutchinson Plantation Co.	Sept. 11, 1884	25	1,600,000	10,000	100
Hilo Sugar Co.	Sept. 11, 1884	25	500,000	5,000	100
Pacific Hardware Co.	Jan. 31, 1885	50	20,000	2,000	100
Union Feed Co.	Jan. 31, 1885	25	50,000	1,000	50
Hawaiian Rumie Co.	Jan. 31, 1885	50	50,000	500	100
Kulaiaua Plantation Co.	Jan. 31, 1885	50	120,000	1,200	100
Press Publishing Co.	Jan. 31, 1885	50	20,000	200	25
People's Ice & Refrigerating Co.	Jan. 31, 1885	50	150,000	15,000	100
Hawaiian Gazette Co.	Jan. 31, 1885	50	30,000	300	100
Pacific Commercial Advertiser	March 11, 1885	50	30,000	300	100
Papaikou Sugar Co.	March 11, 1885	50	300,000	3,000	100
Mokapu Sugar Co.	March 11, 1885	25	120,000	12,000	10
Hesia Agricultural Co.	Oct. 17, 1885	50	150,000	1,500	100
Royal Hawaiian Hotel Co.	Nov. 10, 1885	20	75,000	1,500	50

\* Term extended 50 years from Feb. 3, 1888.

## RULERS OF THE PRINCIPAL NATIONS OF THE WORLD IN 1886.

GOVERNMENTS.	RULERS.	TITLE.	BORN.	DATE OF ACCESSION.
Afghanistan	Abdurmn. Khan.	Amir	1880	
Argentine Republic.	Julio A Roca	President	1838	Oct 12.....1880
Austria-Hungary	Franz Josef.	Emperor	1830	June.....1848
Belgium	Leopold II.	King	1835	Dec 10.....1865
Bolivia	N Campero	President		June 1.....1880
Brazil	Pedro II Alcatara.	Emperor.	1825	April 7.....1831
Bulgaria	Theebaw	King	1858	Oct.....1878
Burmah	Domingo Santa Maria.	President		Sept 18.....1881
Chili	Kuang Su.	Emperor	1871	Jan 12.....1775
China	Ra'ael Nunez.	President		Aug 11.....1834
Colombia	Don Bernardo Soto.	President		March 12.....1865
Costa Rica	Christian IX.	King.	1812	Nov 15.....1863
Denmark	J M P Caamanto.	President		Nov 18.....1883
Ecuador	Tewfik Pasha.	Khedive	1853	June 27.....1879
Egypt	Francois P Jules Grevy.	President	1813	Jan 30.....1879
France	Wilhelm I.	Emperor.	1797	Jan 18.....1871
Germany	Prince Hohenlohe.	Statthalter.	1839	Nov.....1879
Alsace-Lorraine.	Friederich I.	Duke.	1831	May 22.....1871
Anhalt.	Friederich I.	Grand Duke.	1826	April 24.....1832
Baden	Luitpold.	Regent		June 28.....1866
Bavaria.	Dr Gildemeister.	Burgomaster.		
Bremen.	Prince Albrecht.	Regent	1837	Nov 2.....1885
Brunswick	Dr W. ber.	Burgomaster.		
Hamburg.	Ludwig IV.	Grand Duke.	1857	June 13.....1877
Hesse	Waldeemar	Prince.	1824	Dec 8.....1875
Lippe	Dr A G Kulenkamp.	Burgomaster.		
Lubeck	Friederich Franz III.	Grand Duke.	1851	April 15.....1823
Mecklenburg-Schwerin	Friederich Wilhelm I.	Grand Duke.	1819	Sept 6.....1860
Mecklenburg-Strelitz.	Peter I.	Grand Duke.	1827	Feb 27.....1853
Oldenburg	Wilhelm I.	King	1897	Jan 2.....1861
Prussia	Heinrich XXII.	Prince.	1846	Nov 8.....1839
Reuss-Greiz.	Heinrich XIV.	Prince.	1832	July 10.....1867
Reuss-Schleiz.	Ernst.	Duke	1826	Aug 3.....1853
Saxe-Altenburg.	Ernst II.	Duke.	1818	Jan 29.....1844
Saxe-Coburg-Gotha.	Georg II.	Duke.	1826	Sept 20.....1850
Saxe-Meiningen.	Karl Alexander.	Grand Duke.	1818	July 8.....1853
Saxe-Weimar.	Albert I.	King.	1828	Oct 29.....1873
Saxony.	Adolf.	Prince.	1817	Nov 21.....1869
Schaumburg-Lippe.	Georg.	Prince.	1838	Nov 26.....1866
Schwarzburg-Rudolstadt.	Karl II.	Prince.	1830	Aug 19.....1880
Schwarzburg-Sonders.	George Victor.	Prince.	1831	May 14.....1845
Waldeck	Karl I.	King.	1823	June 25.....1864
Wurtemberg	Victoria	Queen & Em. Ind.	1819	June 20.....1837
Great Britain and Ireland	George I.	King	1845	June 6.....1863
Greece.	Don M L Barillas.	President		May 15.....1885
Guatemala	Gen'l Saloman.	President.		Oct 23.....1879
Hayti	Kalakaua.	King.	1836	Feb 12.....1874
Hawaiian Islands.	L Bogran.	President	1844	Nov 27.....1883
Honduras.	Humbert I.	King.	1852	Jan 9.....1879
Italy.	Mutsu Hito.	Mikado.	1830	Feb 13.....1867
Japan	Porfirio Diaz.	President.	1831	Dec 1.....1884
Mexico	Mulai-Hassan.	Sultan.	1841	Sept 20.....1873
Morocco	Nicholas I.	Prince.	1861	Aug 14.....1860
Montenegro.	Ranavalona III.	Queen	1817	July 13.....1884
Madagascar.	Wilhelm III.	King.		March 17.....1849
Netherlands	Adan Cardenas.	President.		March 1.....1883
Nicaragua	Genl Caballero.	President.	1829	Oct.....1880
Paraguay.	Nassr-ed-Deen.	Shah.		Sept 10.....1848
Persia	Sen. Eusebio.	President.	1838	Dec 3.....1885
Peru	Luis I.	King.	1839	Nov 11.....1861
Portugal.	Charles I.	King.	1845	March 26.....1881
Roumania	Alexander III.	Emperor.		March 1.....1881
Russia.	Bellini.	President.		July.....1884
San Domingo.	F Menendez.	President.		June 19.....1885
San Salvador.	Milan I.	King.	1854	June 10.....1872
Serbia.	Maria Christina.	Regent	1857	Nov 26.....1885
Spain.	Oscar II.	King.	1829	Sept 18.....1872
Sweden and Norway	Dr A Deuchar.	President.		Jan 1.....1836
Switzerland	Chulalon Korn.	King.	1853	Oct 1.....1865
Siem	Abdul-Hamid II.	Sultan.	1842	Aug 31.....1876
Turkey.				

## RULERS OF PRINCIPAL NATIONS OF THE WORLD IN 1886.—Continued.

GOVERNMENTS.	RULERS.	TITLE.	BORN.	DATE OF ACCESSION.
Tunis.....	Sidin Ahsin.....	Bey.....	1817	Oct 28.....1882
United States.....	Grover Cleveland.....	President.....	1837	March 4.....1885
Uruguay.....	Maximo Santos.....	President.....		Feb 28.....1882
Venezuela.....	Joaquin Crespo.....	President.....		Feb 20.....1884

## RULERS OF HAWAII.

NAME.	BORN.	BEGAN TO REIGN.	Age on Accession.	DIED.	AGE.	Length of Reign.
Kamehameha I.....	1753	1782	29 years	May 8, 1819	66 years.	37 years.
Kamehameha II.....	1797	May 8, 1819	22 "	July 13, 1824	27 "	5 yrs., 3 mos.
Kaahumanu (Regent)...	1774	July 13, 1824	50 "	June 5, 1832	58 "	7 " 10 1/2 mos.
Kamehameha III.....	Mar. 17, 1814	March, 1833	19 "	Dec. 15, 1854	40 " 9 mos.	21 " 9 "
Kamehameha IV.....	Feb. 9, 1834	Dec. 15, 1854	20 "	Nov. 30, 1863	29 " 9 mos.	8 " 11 1/2 "
Kamehameha V.....	Dec. 11, 1836	Nov. 30, 1863	33 "	Dec. 11, 1872	43 "	9 " 11 days.
Lunalilo.....	Jan. 31, 1835	Jan. 9, 1873	38 "	Feb. 3, 1874	39 "	1 " 25 "
KALAKAUA.....	Nov. 16, 1836	Feb. 13, 1874	37 "	Now Reigning.		

## THE PUBLIC DEBT.

From the Report of the Minister of Finance, 1886.

Balance of National Debt as shown March 31, 1884.....	\$ 834 100
Amount borrowed by Authority of the Act of August 5, 1882.....	195 400
Amount Stock re-issued to Bureau of Education.....	36 100
Present debt April 1, 1886.....	\$1,065 600

## INTEREST ON PUBLIC DEBT.

The interest charges on the debt, are:

6 per cent per annum on.....	\$ 725 400
7 per cent per annum on.....	43 100
9 per cent per annum on.....	260 000
12 per cent per annum on.....	37 100
	\$1,065 600

Of the above debt there will become due and payable during the current fiscal period as follows:

Amount drawing interest at 9 per cent per annum.....	\$245 700
Amount drawing interest at 7 per cent per annum.....	21 200
Amount drawing interest at 12 per cent per annum.....	1 000
	\$267 900

## THE LAND SHELLS OF THE HAWAIIAN ISLANDS.

BY D. D. BALDWIN.

Prepared expressly for the Hawaiian Almanac and Annual.

THE Hawaiian Islands are the most ocean isolated portion of the inhabited globe. The broad expanse of uninterrupted waters about us measures over 2,000 miles to the nearest continent, and but a little less than this to the nearest group of islands of any considerable extent. As a natural result the terrestrial mollusca of our island group is of a most original and independent character, evincing marks of very great antiquity as well as isolation. A few genera of land shells common to other countries are sparsely represented here. The prevailing and exclusively Hawaiian shells are the *Achatinella*, a genus of gaily painted shells, characterized by a similar vivid design of coloring and by a peculiarly twisted structure of the columella or central column.

HISTORY OF THE GENUS *ACHATINELLA*.

The earliest notice we have of any species of this genus is in the narrative of the voyage of Captain Dixon of London made to these islands in 1786, eight years after their discovery by Captain Cook. This officer purchased from the natives of Oahu a necklace made of *A. lugubris*, a purple black shell found at Waialua, Oahu. So great was the desire among scientists to possess specimens of the little novelty, that the shells of this necklace sold in Europe for \$30 or \$40 a specimen; and what had cost at Oahu a bit of iron realized several hundred dollars in Europe. Chemnitz, mistaking it for a marine species, named it *Turbo lugubris*. It was not until thirty-five years later that these shells were fully recognized as land shells and the name *Achatinella* adopted for the genus. *Achat. lugubris*, Chemnitz, is the oldest recognized species of the genus.

Until 1850, only about 50 species of *Achatinella* had found their way abroad and were known to the scientific world. About this time, intense interest was awakened on the islands, in this hitherto little explored field of scientific research. Very many, old and young, foreigners and Hawaiians, scientists and amateurs, enthusiastically entered the field of discovery, and the number of claimed new species of *Achatinella* rapidly swelled to several hundreds. This shell collecting mania continued for several years, and is still referred to by islanders as the period of the "land shell fever." The new species discovered at this time were pub-

lished by Dr. W. Newcomb and Dr. L. Pfeiffer in Proc. Zool. Soc. London, 1853 and 1855; and also by Rev. J. T. Gulick in Annals Lyceum Nat. Hist., New York, 1858. Subsequent to this time a considerable number of additional species have been published in various conchological journals by the above named scientists, and also by W. Harper Pease, and Edgar A. Smith of the British Museum.

#### PRESENT HABITATS OF THE ACHATINELLA.

The discovery of so large a number of land shells of the same genus within limited island areas was unprecedented, and at once induced the belief that the "completion of the collection of the genus had been sealed." This is a mistake. The homes of the Achatinella are our rugged mountains, densely covered with vegetation, and their sides furrowed by deep and almost inaccessible ravines; and large districts on Oahu and East Maui which have never been visited by white men remain yet to be explored. It will require years of research and study before the number and the exact distribution of the remaining species can be ascertained.

It is also generally supposed that these shells are becoming extinct by the ravages of cattle through our forests. This is true in respect to a limited number of species on the island of Oahu whose habitats were the forests on the lowest range of hills. Some of these hills have been denuded of woods, not only by cattle, but by the woodman's ax, and certain species are becoming rare. The favorite resorts of many species are the *ki* (*Dræcena terminalis*) and the *olona* (*Boehmeria stipularis*), both excellent fodder plants. But, in localities where these plants have been entirely destroyed by cattle, the shells have generally selected homes on other adjoining plants.

The ravages particularly of wild cattle in our mountain forests are certainly to be deprecated. Nevertheless by clearing the underbrush they render the forests more accessible for the collection of known species; and by opening paths to the higher and denser forests they facilitate the discovery of new species.

The agencies now threatening the wholesale destruction of these little gems of the forest are the rats and mice, which have become very abundant in mountain forests, particularly where there are no cattle. Their ravages are not confined to the shells whose habitats are on the ground, but extend to those found on trees. It is not uncommon to find around the charnel cells of these noxious little animals hundreds of empty, mutilated shells.

Notwithstanding these threatening agencies, the *Achatinella* are still quite abundant on Oahu and Molokai, where cattle have the widest range, though not so abundant as formerly on West Maui where the cattle ranges are somewhat limited, and the mice enjoy greater immunity. In a recent excursion with a friend through a portion of the mountain forests between Ewa and Waialua on Oahu, more than 3,000 shells were collected in a few days, embracing over fifty species of *Achatinella*, some of them new to science. In a similar trip around Molokai, nearly 5,000 were collected, embracing thirty species, some new.

#### NUMBER OF KNOWN SPECIES OF THE *ACHATINELLA*.

We find that 465 species of *Achatinella* have been described by various authors. Of these 112 are manifest synonyms or varieties; consequently 353 remain distinct as good species. We include with the latter most of the species published by Rev. J. T. Gulick in 1856, which were disposed of by Dr. Newcomb as synonyms in his "Synopsis of the Genus *Achatinella*." Having had opportunity of examining a collection of Mr. Gulick's, made especially for the purpose of illustrating the distribution of species on Oahu, we are of opinion that most of the species published then by him are entitled to credit as good species.

#### CLASSIFICATION OF THE *ACHATINELLA*.

The *Achatinella* are divided into terrestrial and arboreal species. The former live on the ground among decayed leaves and vegetable matter or in the crevices of rocks in damp places. The arboreal species are found generally on the leaves of trees, though sometimes on the trunk and limbs.

These shells have also been divided by authors into thirteen or more natural groups, which have been distinguished by generic names. Several of these groups are wanting in distinctive characteristics sufficient to warrant a generic separation. We prefer to retain for the whole family the one generic name *Achatinella*, and to designate the sub-divisions of the family as *groups*. Following essentially the division proposed by Rev. J. T. Gulick in Proc. Zool. Soc. London, 1873, we have arranged our own collection in nine groups.

**GROUP I.** (*Achatinellastrum*, Pfeiffer.) This group is restricted to the shells of an elongate conical form. They are all arboreal. There are 56 known species, and they are found only on Oahu. The larger forms of the group are represented by *A. producta*, Rve., *A. Dunkeri*, Cumg., and *A. Johnsonii*, Newc., all found on Tantalus near Honolulu.

Some of the smaller forms are *A. livida*, Swain., *A. recta*, Newc., and *A. glauca*, Gulick, all found in the Waialua district.

GROUP 2. (*Bulimella*, Pfeiffer.) This includes the shells of an ovate ventricose form with obtuse apex. The species are all arboreal, numbering 38, and are confined to Oahu. Some of the typical forms are *A. ovata*, Newc., Hab. Koolauloa; *A. tœniolata*, Pfr., Hab. Palolo; *A. rosea*, Swain., Hab. Waialua.

GROUP 3. (*Apex*, Von Martens.) This embraces the shells of a globose conic form with apex acute. The 39 species of the group are arboreal, and found only on Oahu. Representatives of this group are *A. decora*, Fer., Hab. Waialua; *A. Swiftii*, Newc., Hab. Waialua; and *A. bicolor*, Gulick, Hab. Lihue.

GROUP 4. (*Partulina*, Pfeiffer.) This group includes arboreal species peculiar to the islands of Maui, Molokai and Lanai. These species number 40, and vary considerably in form. *A. Tappaniana*, Adams, and *A. splendida*, Newc., are Maui types of the group. *A. virgulata*, Migh., and *A. proximus*, Pease, represent Molokai. *A. crassa*, Newc., is a rather aberrant form from Lanai. Smaller species of the group are *A. minuscula*, Pfr., from Maui; *A. Helena*, Newc., from Molokai; and *A. variabilis*, Newc., from Lanai.

GROUP 5. (*Laminella*, Pfeiffer.) The species of this group are arboreal and peculiar in having their outer lip thin. Three of the group are found on Oahu, and 13 are distributed among the islands of Maui, Molokai and Lanai. Oahu is represented by *A. sanguinea*, Newc.; Maui, by *A. picta*, Migh., and *A. bulbosa*, Gulick; Molokai, by *A. venusta*, Migh.; and Lanai, by *A. tetrao*, Newc.

GROUP 6. (*Newcombia*, Pfeiffer.) The shells are distinguished by their long and slender form. They are arboreal in their habits, and of the six species comprising the group, one is found on Maui and five on Molokai. *A. Cumingii*, Newc., on Maui, and *A. plicata*, Migh., on Molokai, are typical forms.

GROUP 7. (*Auriculella*, Pfeiffer.) The shells of this group are small and distinguished by a lamina on the wall of the aperture, in addition to the usual columellar twist. They are arboreal and number 19 species, as far as described, distributed through the islands of Oahu, Maui and Molokai. *A. auricula*, Fer., is found on Oahu; *A. uniplicata*, Pease, on Maui; *A. brunnea*, Smith, on Molokai.

GROUP 8. (*Amastra*, Adams.) The species are mostly terrestrial, and are generally covered with a rough, dark epidermis. This group



numbers 66 species, and is represented on all the islands ; consequently the species present more variations in form than those of any other group. Here belong *A. gigantea*, Newc., from Maui ; *A. violacea*, Newc., from Molokai ; and *A. magna*, Adams, from Lanai ; the three largest species of the Achatinella. Other leading types are *A. rubens*, Gould, from Oahu ; *A. Marstersii*, Newc., from Maui ; and *A. nubilosa*, Migh., from Molokai. An enlongate form from Lanai is *A. biplicata*, Newc. *A. flavescens* comes from Hawaii. Some of the more aberrant forms of the group are *A. kauaiensis*, Newc., from Kauai ; *A. obesa*, Newc. from Maui, and *A. Hutchinsonii*, Pease. from Maui.

GROUP 9. (*Leptachatina*, Gould.) All the 73 known species of this group are terrestrial. They are small, thin, generally transparent shells, and are widely distributed through all the islands of the group. Some of the prominent types are *A. accuminata*, Gould, found at Hanalei, Kauai ; *A. fumosa*, Newc., Manoa, Oahu ; *A. gracilis*, Pfr., Kaala, Oahu ; and *A. nitida*, Newc., Maui.

#### GEOGRAPHICAL DISTRIBUTION OF THE ACHATINELLA.

The facts relating to the geographical distribution of the Achatinella, and the development of so large a number of species within the limits of small areas, are very remarkable and interesting, and have presented problems bearing on the theories of evolution. Each island has its own peculiar species, and not only species, but its own peculiar types, or groups of species of similar form. Again, on the islands where there has been a full development of Achatinella, each principal mountain ridge and valley has its own peculiar species which are found no where else ; the species of each ridge or valley being often connected with those of the next by intermediate varieties.

Another important fact observed in the distribution of the Achatinella is, that on a mountain chain with many culminating peaks, the tendency is to a divergence of species ; while on an individual mass of mountains concentrating towards a single culminating peak, the tendency is to a convergence of species.

The structure of the Hawaiian Islands is volcanic ; and in studying the distribution of shells over them it is important to note the relative ages of the several islands. Geologically speaking Kauai is the oldest ; next in the series is Oahu ; then Maui with the adjoining islands of Molokai and Lanai ; and last comes Hawaii, in the southern portion of which volcanic fires are still raging.

OAHU.—The development of *Achatinella* on this island, both as regards number, and variety of form and color, has been greater than on any other island of the group. Unlike most of the other islands, which have individual mountain masses, Oahu has two true ranges or chains of mountains, a longer and a shorter one, with many independent, culminating peaks. The aggregate length of the two ranges is 50 miles. The sides of these ranges the entire length are furrowed with deep valleys separating lofty ridges. These valleys and ridges are the home of the *Achatinella*. Each valley and ridge has its own distinct species which are connected with those of the next valley and ridge by a multitude of intermediate varieties presenting minute gradations of form and color. These two ranges of mountains have already furnished 227 distinct, described species of *Achatinella*. The number of varieties has been estimated as high as 800 or 900. All these species and varieties are found in an area of less than 120 square miles; and a considerable portion of the longer range remains yet to be explored. These species have all the various shapes from globose conical to ovate and elongate conical, and present almost every possible shade and variety of coloring, pure white to jet black, and all the shades of green, rose, yellow, brown and ash. Sometimes several of these colors are combined in one species either in regular or irregular bands, or in tessellated, marbled or zigzagged designs.

WEST MAUI.—On this part of Maui we have the converse of Oahu. Its individual mass of mountains, clustering around one common central peak 2,000 feet higher than any part of Oahu, furnishes only 30 described species of *Achatinella*. Each principal valley and ridge has its peculiar species or varieties; but all the arboreal species can be referred to seven leading types. These species differ much from the Oahu types, and do not present the same varieties of form or color. The prevailing colors are white and dark brown with all the intervening shades, either plain, or variously arranged in bands or zigzagged lines.

EAST MAUI.—The distribution of the *Achatinella* on this part of Maui is not fully known. All its mountain gorges and ridges concentrate around the rim of the immense crater of Haleakala, a circumscribing bound of nearly 30 miles in extent. The almost impenetrable forest jungles on the mountain slopes to the East and South of the crater, comprising a belt 20 miles long and 6 miles wide, remain unexplored, and its mollusca life is unknown. The wood lands on the northwest slope of the mountain facing West Maui furnish 29 described species of

*Achatinella*; but they are the same or unmistakable counterparts of those found on West Maui. The narrow depression of land between East and West Maui has led many to infer that they were originally separate islands. This similarity of shell types would seem to indicate that, if ever separate, they must have been united before the development of mollusca life; otherwise we should expect to find the types of East and West Maui differing as much from each other as do those of Maui and the contiguous islands of Molokai and Lanai.

**MOLOKAI**—The distribution of *Achatinella* on this island presents some features not observed on any of the other islands. The island is forty miles long with a width of only seven miles. It is about one-third the size of Oahu, and like it has a mountain range extending nearly thirty miles through its length. The range is furrowed on each side with deep valleys. Some of these mountain gorges are very wide and cut deep into the narrow axis of the island. The larger ones have proved an effectual barrier to the migrations of the shells. The island is thus divided into three natural sections, and each section retains its own peculiar species without intermingling with those of the next section. Molokai furnishes 25 described species which are about equally divided between the three sections of the island. These shells exhibit more variety of form and color than those of Maui, and have peculiarities which separate them entirely from the types of the other islands.

**LANAI**—This is the smallest and most arid of the shell-producing islands. Its area is 100 square miles, of which probably not over one-tenth is suited for the support of mollusks. The island is, however, notable as the home of *A. magna*, Adams, the largest shell of the whole *Achatinella* family. Specimens in our cabinet measure 1½ inches long. The whole number of species on Lanai is 13, and they exhibit peculiarities of type.

**KAUAI**—This is the oldest and most verdant island of the group. It lies to the west of Oahu, and is separated from it by a channel wider than occurs between any of the other islands. Its extensive forests, luxuriant vegetation and moist climate render it peculiarly well adapted for the abode of *Achatinella*; and one would naturally expect to find here a larger and, if possible, higher development of the family. But we are doomed to disappointment. The island yields no arboreal species. The shells are all terrestrial, and those classed with the *Achatinella* belong to the plainest forms of the *Amastra* and *Leptachatina* groups; 5 species to the former, and 18 to the latter group.

Kauai, however, does furnish a very peculiar and interesting group of large terrestrial shells, remarkable for their elongate, turreted form. The generic name *Carelia* has been provided for the group. It embraces seven species. Specimens of *Carelia turricula*, Migh., in my cabinet measure 3 inches long. This group has no claims to a place in the Achatinellinæ family as classed by Mr. Gulick. It lacks the peculiar spiral twist of the columella and other generic characters of that family. Living specimens of the *Carelia* are now exceedingly rare. But at some period in the history of Kauai they were very abundant. The alluvial deposits near the coasts of portions of the island contain multitudes of these shells in a semi-fossil state, which have been washed from the mountains by the freshets of ages past. The small neighboring island of Niihau also has a single species of *Carelia* found in sand and mud deposits. No living specimens are found there now.

HAWAII.—This island embraces within its bounds two-thirds of the total area of the whole group. It is also supposed to be the most recently formed of the islands. The volcanic forces are still at work here. Its extensive forests are as well adapted for the support of *Achatinella* as those of any of the other islands. But it furnishes only a single arboreal species and five terrestrial. The arboreal species is *A. physa*. It was first described by Dr. Newcomb in Proceedings Zoological Society, London, 1853. In a subsequent number of the same journal, Mr. W. H. Pease refers to this same shell as a "species rarely met with on the mountains of Hawaii." Its center of production is the Kohala range of mountains, notably the most ancient portion of the island; and it *now* exists there in unparalleled abundance. During a recent visit to the locality, in a few minutes I collected several hundred specimens, picking them from trees and low bushes as rapidly as one would gather huckleberries from a prolific field. The shell appears to be slowly migrating into the adjoining districts of Hamakua and Kona, and assuming new shapes and varieties of coloring. One of these varieties in our cabinet is almost worthy of assignment as a new species. The conchologists of a few centuries hence will no doubt be naming *Achatinella* from the different districts of Hawaii of manifold forms and gaudy colors, which have developed through the mysterious processes of evolution from the now humble *A. physa* of the Kohala mountains.

#### OTHER GENERA OF LAND SHELLS ON THE ISLANDS.

As already stated, genera of land shells other than the *Achatinella* are sparsely represented here. After considerable research I find de-

scribed only 92 such species, distributed among 7 genera. Of the *Ca-relia* found on Kauai, I have already spoken.

There has been on some parts of the island of Hawaii a most remarkable development of the *Succinea* family. This is a genus of thin, pellucid, amber colored shells, with a large body whirl. In extensive portions of the Hamakua and Kona districts, at altitudes of 3,000 to 5,000 feet, the soil is filled with millions of the sub-fossil shells of this family. Of 29 described species of *Succinea*, 22 are found on Hawaii. Further exploration will doubtless swell the number of Hawaii species to 50 or more.

The only other considerably represented genus is the *Helix*. Of this family there are 30 species, most of them found only on Kauai. I do not include *Helix similaris*, Fer., an introduced shell, common in the garden lots of Honolulu, and the low altitudes of some of the other islands. It is I think a native of South America; but appears to be a species very diffuse in its habitats. This is the only introduced shell we have here.

The other genera of land shells are *Pupa*, represented by 10 species; *Bulimus*, 7 species; *Helicina*, 5 species; and *Tornatellina*, 4 species.

Of fresh water shells, the *Limnæa*, *Neritina*, *Melania*, and *Melampus* genera are represented by 22 species. Seven other genera have each a single species.

#### TARO—*Colocasia Antiquorum*.

THIS very excellent and unsurpassed vegetable, in its several varieties, is well known through many of the islands of the Pacific Ocean to which, as in the Hawaiian Islands, it seems to be indigenous; but to Hawaiians does the credit belong of the perfection of its culture and their dependence upon it as their "staff of life."

Early voyagers and explorers of the Pacific, although they reported taro, or a species of arum, among their enumeration of the products in many of the islands or groups visited, made but little mention of the extent of its cultivation till after the settlement by foreigners and they, themselves, had become acquainted with its preeminent qualities. It became known to the world from Tahiti much earlier than from Hawaii through the early establishment of English missions; and it is an interesting coincident that taro flour was experimented upon there, with

satisfactory results, as early as the year 1823, of which we find the following reference in Ellis' *Polynesian Researches*:

"When destitute of foreign supplies, we have attempted to make flour with the taro, by employing the natives to scrape the root into a kind of pulpy paste, then drying it in the sun, and grinding it in a hand-mill. The taro in this state was sometimes rather improved."

While taro is thus a well recognized article of food with Tahitians, they look to the breadfruit as their mainstay, probably from the less labor of cultivation, or, it may be, from insufficiency of suitable irrigable land for taro. But be that as it may, the Hawaiian Islands have been renowned for the extent, quality, and system in the cultivation of taro; and the almost sole dependence of Hawaiians upon taro as an article of food has proven its high qualities in their physical development. This fact has been recognized by various travelers and, what has seemed to some as extravagance, their statements, as to the sustaining power of an acre of taro, do not fall wide of the mark when a little careful calculation is entered into. The statement was made by a writer,\* early in the "fifties," which has been reproduced in various works since, that 'forty feet square of land planted with taro will afford subsistence for one person during a whole year, and a square mile of land planted with the same vegetable will feed fifteen thousand one hundred and fifty-one persons for the same length of time.' Figures at hand from present practical taro cultivators place the average of taro, per acre, at twenty-eight thousand pounds of paiai (cooked taro pounded to a stiff pulp). Allowing four pounds per day per man—a liberal allowance—this will give to the square mile, or six hundred and forty acres, subsistence for twelve thousand two hundred and seventy four men for one year.

When this fact is taken into consideration, it is remarkable that so long a time should have elapsed ere an effort was made to render taro a serviceable and marketable article for export. Therefore, all honor is due the Alden Fruit and Taro Company, of Wailuku, in their preparation of so valuable a product as their taro flour in a condition that not only keeps for any length of time, in any climate, but can be, and is, made serviceable in parts of the islands where taro itself is unobtainable. Their preparation of taro is useful on voyages, will keep in foreign climes, and is also desirable from the cleanliness of its manufacture and its handiness. It is therefore becoming a favorite article of household supply, and has the recommendation of the entire medical faculty of Honolulu for the sick room. In its present shape its cheapness also

\*Sandwich Island Notes by a Haole.

commends it for the use of hotels, shipping, plantations, etc. Five pounds of taro flour will increase in cooking so as to give twenty-five pounds of prepared poi. Five small bags of five pounds each, is calculated to be ample for a man's supply for one month.

There are a number of varieties of taro of the two kinds, red and white, known both to Tahiti and Hawaii, those in this country numbering in all twenty-eight varieties. But for choice of flavor and profitability of cultivation the variety is narrowed down to about five or six. The ANNUAL for 1880 enumerates the entire list as follows:

"Apuwai, two kinds; Haokea, one; Kai, four; Mana, four; Hapuu-puu, two; Ipuolono, Lauoa, Mahaha, Lehua, Piialii, Poni, Kuma, Noho, Makaopio, Uwahiapale, one each; Mamauea, two; Lola, Naua, Apowale, Elepaio, Makohi, Makoko, Piko, Nawao, Kuoho, Ualehu or Heualehu, Kanio and Manini, one each.

Of the foregoing list the first named, in its white variety, is the general favorite. Of late years a red variety has been met with in Nuuanu Valley, said to have been introduced from Tahiti. The different varieties of Kai are said to be remarkably fragrant when cooked; is scarce, grown principally at Ewa. Mana is a great favorite with some people, especially its yellow and red varieties, and is said to be distinguishable in its having a double stalk to each root. Ipuolono is an excellent variety, and as its name indicates—belonged to the priesthood. Lauoa is used by the kahunas as having medical properties, both in root and leaf. Its name, meaning long leaf, has been transposed by them to mean long life. The Lenua and Piialii were said to be the favorite red taros of the chiefs from which, in the manufacture of their poi, the centre portions only of each taro was used."

#### ANNEXATION OF OCEAN ISLAND.

HAWAII has been extending her borders the past year, having claimed, September 20, 1886, Ocean Island as part of the domain of His Majesty Kalakaua, and named the same Moku Papapa. The island is situated in Lat. 28° 23' N., and Long. 178° 30' W., and is the same on which the British ship *Dunnottar Castle* was wrecked July 15, 1886; the U. S. S. *Saginaw*, October 29 1870; the American whaleship *Parker*, September 24, 1842, and the British ship *Gledstan's*, July 9, 1837. It is coincident that relief to all of these unfortunates came through the Hawaiian Islands, hence, perhaps, the idea that it should be part and parcel of Hawaii. On the Hawaiian Government claiming the island, a rude structure was erected and tanks placed in position for water, and trees planted for the possible relief of future wrecked mariners upon the reef-bound, barren island.

## SUSPENDED AND RENEWED ACTIVITY OF KILAUEA.

[Condensed mainly from a "Volcano Trip to Kilauea During Its Quiescent Period, March, 1886, By Thos. G. Thrum," published in pamphlet form (8vo. 16 pp.) by request.]

FOR a period of several months prior to March, 1886, Kilauea had been gradually filling up its lakes and increasing the violence of its action, so that on the 6th of that month, it was recorded in the Volcano House register that both the old and new lakes were unusually full and brilliant. At 9:30 of the same evening, distant rumbling noises were heard accompanied by a series of earthquakes, forty-three in number, which lasted till 7 A. M. of the 7th. With the fourth shock—which was quite severe—the brilliancy of New Lake disappeared and towards 3 A. M., the fires in Halemaumau disappeared also, leaving the whole crater in darkness. With the dawn the shocks and noises ceased, and revealed the changes which Kilauea had undergone during the night. All the high cliffs surrounding Halemaumau and New Lake, which had become a prominent feature in the crater, had vanished entirely, and the molten lava of both lakes had disappeared by some subterranean passage from the bottom of Halemaumau.

The desire to witness and study Kilauea during a period of suspended activity, and record events, led a small party to visit the late scene of action not many days after. We arrived at the volcano late in the day in the midst of a drizzling rain. As we neared the crater heavy clouds were rising from many points, and low banks of steam seemed to cover the entire bed; so much so, that hope was entertained that we had arrived in time to watch returning volcanic life. During our stay it was noticed that the steam in the crater was much less in the early part of the day, but grew more intense as the day waned. There was no material change in the sunken portion of the crater, from what had been reported, except a continual falling in of rocks and debris from its banks, as the contraction from its former intense heat loosened their compactness and sent them hurling some 200 to 300 feet below, giving forth at times a boom as of distant thunder, followed by clouds of cinders and ashes shooting up into the air 100 to 300 feet, proportionate, doubtless, to the size of the newly fallen mass. Yet, notwithstanding this condition of the huge pit, Rev. E. P. Baker, of Hilo, descended into it March 18th to within what he judged to be fifty feet of the bottom. His recorded experience in the Volcano House records does not recommend



the feat to others at present, nor did its appearance to our party four days later impress us with feelings of assured security.

During the evening the rain ceased, but the crater-bed and sunken lakes emitted steam from their thousand cracks and fissures so much as to obstruct the view of the field. The 22d opened clear and with much less steam from the many directions noticed previously.

Language fails to adequately convey a correct idea of this wonderful and immense pit crater. Able and scientific pens have dealt with the subject, and yet there is but one universal expression of surprise, by all visitors to Kilauea, at the grand, sombre immensity spread out before them. I seemed to have forgotten this in the twenty-three years that had elapsed since my former visit, though familiar with various published accounts since; for I stood on the bank of Kilauea amazed at the expanse of volcanic desolation within its crater of some twelve miles circumference. The bed or floor of the crater I found much higher than in former years, successive overflows or out-breaks at the lakes having raised it gradually for years past. Especially was this noticeable at the farthest end of the crater where recent flows from Halemaumau had brought it up almost to a level with the sand and pumice banks on the south-east side. The vast chasm of fallen Halemaumau and New Lake, with their sunken adjacent banks and cliffs but intensified the picture of ruins; and the distant columns of smoke and steam emerging therefrom arose like silent witnesses of departed greatness.

After breakfast, accompanied by Mr. J. H. Maby, manager of the Volcano House, and the native guide, the party set out for the day's observation by going around to the bluffs on the west side of the crater for a view from the most elevated point; then down onto a ledge abreast of Halemaumau's ruins, from which bank four excellent photographic views were secured. We then climbed back again to continue our way southward, traversing the banks of pumice, till we reached a place free of boulders, where we descended into the crater by jumps and slides, and made our way to the pit of destruction and desolation, obtaining our first near view from the south edge or bank, near several cones that formed a principal feature of the locality. Here much steam and heat were observed. To the eastward of this locality, and for a considerable distance to the southward, the bed of the crater was very much broken and sunken. This point afterward proved to have been the most commanding for a view of the crater's depth, and the detour around its west and northern rim, to the northeast portion of where New Lake lies, gave

us an opportunity to approximate the extent of the vast chasm. In making this detour we came upon two broken cones on the western side, which gave forth much heat but little or no steam. These were found to be connected with pipes or tunnels running in a northwesterly direction from the pit, and may have been blow-holes during the time of activity in the lakes, judging from their shape and encrustations on what remained of their orifices; but now they simply emitted white waves of heat. Both of these cones were broken into halves, with the southern half standing. Later observations of five others showed breaks in the same direction in three, while the other two were broken in more of a northwest and southeast direction, but still with the northern portion gone. This may be coincident only, and yet it may have a bearing in aid of a solution of the mysterious disappearance of lava, especially when coupled with the fact that the recent rents and fissures run mostly in a northwesterly and southeasterly direction from the volcano.

Intense heat waves were also found issuing from two broken domes in front or north of the middle break, while close to the edge of the northeast portion of where New Lake stood were two breaks where the heat was most intense, showing that living fire could not be far from the surface. On the south rim of the cavity, from which point we obtained our first close view of the immense pit, and where our artist took his first in-the-crater view, the guide set fire to his stick by inserting it in a crevice not more than fifty feet from where we were standing; so that we had evidences of fire on all sides, though the source of the greatest activity was on the New Lake side of the crater, and seemed to be increasing.

Continuing our detour, we came to the front or north rim, abreast of where Halemaumau stood, and opposite where we obtained our first brink view. As there, so here, our artist secured two excellent views of its characteristic depth. It is difficult to convey a correct idea of this monstrous pit, except that it was naturally of an inverted cone shape, and in extent measured nearly half a mile across by seven-tenths of a mile in length, including New Lake. From this point we felt our way cautiously around to the Little Beggar location, near the New Lake. This had fallen, or rather dropped down into the New Lake section, since the first great break, but it was upright in position with its northern half gone. The floating-island phenomenon of New Lake was also noticed to have settled down bodily into the southern part of the lake. Near this point, eastward of New Lake, was the greatest degree of heat found, and in one of the broken cones the red glow of molten lava was

seen. In another similar cone not far distant from it, but where no glow was seen, a shoe thrown in by the guide blazed in a few seconds.

The pit, as viewed from our several points of observation, showed Halemaumau to have sunk some 570 feet. Mr. Maby stated that previous to the collapse on the 6th, the highest point of Halemaumau's rim was on its southern bank, known as Cathedral Rocks, which, as seen from the Volcano House, were higher than the tops of the distant hills to the south of Kilauea. They must therefore have been about 200 feet higher than the present rim of Halemaumau's ruins. The present height of the floor of the crater, or caldera, around the banks of the chasm, ranged by aneroid measurement, from 300 to 325 feet below the veranda of the Volcano House, and 200 feet higher than at the foot of the path where visitors generally enter the crater. This height at the lakes, above the northern edges of the floor of the crater, has been growing up gradually for some time past, by overflows from Halemaumau, as has been already remarked.

At the disappearance of the lava, the rush from Halemaumau drained off New Lake, which in its deepest part measured 135 feet in depth. At the withdrawal of this bed of molten lava connecting the two lakes, the roadway portion of the bed of the crater which bridged the two dropped down into the chasm, with its incline toward the north and east, leaving its highest and most abrupt break on the Halemaumau side. A peculiar feature of the chasm was, that what at a distance seemed to be perpendicular, solid walls, was the most burnt out sections, a near view showing the material to be a bank of reddish ash, or sand nature, while the most crumbling and shelving portion of its sides was the lava masses of various sizes, but mostly having a decidedly burn-out appearance. Ledge after ledge of rock and debris had fallen, and were continually falling, until the view was obstructed so that it was impossible to see the point of greatest depth. This fact, doubtless, gave rise to the report that "you could not see the bottom," which was true, in a sense, but not that it was bottomless. This general appearance of lifeless ruins and debris with no signs of fusibility among the rocks of the fallen mass gave rise, doubtless, to the impression that Halemaumau would not again be the scene of volcanic activity.

On the 24th and again on the 25th I descended the crater for further observations. At the last visit, I reversed the order of my first course of travel on Monday the 22d. During these visits I found the contour of the lakes continually enlarging, and the surface or floor of the crater

adjacent to the places of heat constantly changing. Near the edge of the chasm the floor was changing and breaking away, requiring more caution in our steps of investigation, consequently, the difficulty of near approach to any part of the rim made the day's trip far from satisfactory, yet the observations and discoveries opened up a new train of ideas respecting the probable direction of volcanic activity in Kilauea. At these subsequent visits the cone wherein our guide threw his shoe was found to have caved in to a considerable extent, revealing a tube or tunnel about ten feet in diameter at the farthest break, but increasing toward the lakes, with which it was evidently connected. This tunnel ran in a northeasterly and southwesterly direction, its eastern part still emitting considerable heat.

Interesting as Kilauea naturally is in a state of activity, this periodic change gives it a zest, and enhances considerably its interest to scientists and students of nature. The days spent in examinations of different parts of the crater, its fissures, sulphur banks, and fern glens, as also the adjacent woods to the north, sped by too quickly to satisfy our party with its varied attractions. The weather for the most part was delightful, the mornings being clear and bright, and giving us metropolis-hedged mortals the rare vision of Mauna Loa in its mantle of snow.

Much has been written and said relative to the crater and its constant changes, but it takes time to "do it"—as tourists would say—to thoroughly understand this. Kilauea can be best known only by carefully watching and studying various points of interest to understand their relative bearing on some discovered or suggested question of volcanic phenomena. On the last day of my visit a portion of the time was spent in examining the banks and ledges to the south-west of the crater, with its beds of sand, pumice and gravel. Three well defined terraces of this material were observed, the banks or cliffs, of what once formed the north-west walls of the crater, being easily traced. Successive layers of older ledges and banks of pumice above and beyond, were found in a fissure enlarged during the recent earthquake shocks, which runs from the south-west edge of the crater in the lowest bank or terrace, in a south-west direction, showing a depth of some fifteen feet, and a width varying from ten feet to a crevice. Through this section of terrace, the cracks were numerous and the ground very spongy to the tread, though not so much as in the pumice banks in the south, or farther end of the crater itself. Now, why this peculiar formation at this point, if it does not indicate successive periods of subsidence and changing activity eastward?

From observations in going and coming, I have no hesitancy in commending a day's trip around the western rim of the crater to the south, and return by way of the lakes across the crater to the Volcano House; the elevated views obtained from the high west banks surpass that of any other point. The climb out of the crater, after a long detour journey is severe to parties unused to long tramps, but the ascent can be made comfortably by frequent restings, as the winding path brings one to occasional levels, thus relieving the fatigue of what otherwise would make a severe journey.

A visit to the sulphur banks, a short distance from the Volcano House, is a natural one for all to make, not only for examination of the beds of sulphur, but also the numerous steam cracks in the vicinity, some of which emit their noisome vapors with much force. A bath house is erected for the convenience of those desiring a sulphur steam-bath, and bathers can regulate the heat to suit themselves. At the back of the sulphur banks and running to the east, are two fern glens that are delightful in their rank tropic verdure. There are also some attractive spots of a similar nature to be found on the way down into the crater, to the right of the path. Our photographer made good use of his time and opportunities to impress all the beautiful, as well as the grand and wonderful to be obtained, as the collection of views now at J. Williams' Art gallery, on Fort Street, Honolulu, amply testifies. If time will allow, a trip to Kilauea Iki should not be missed, as it is but a mile from the house. It is an extinct crater of considerable depth, its steep sides are covered with verdure, and its bottom is a smooth floor of lava that flowed in from Kilauea proper in 1832.

The forest verdure presents also an interesting field for study and recreation, and botanists, vieing with geologists, can revel in their opportunities at this point. The pulu tree-fern is at home in this region, and the silver sword is obtainable without a climb to Haleakala. The yellow flowers of the mamani tree and the red feathery-blossoms of the ohia-lehua brightens the variety and studies in green, which our forests afford, while the enlivening chirp of many birds add to the pleasure and renders a tramp through the woods bright and exhilarating.

A description of the volcano trip would be incomplete without mention of the comforts and conveniences of the Volcano House now under the control of the Wilder's Steamship Co., and management of Mr. J. H. Maby. The house is comfortably arranged with bed-rooms, sitting room with open fire-place, dining room, pantry, kitchen, and drying room.

The building stands a little distance from the bank, facing the crater, having a veranda running its whole length. Its table is supplied with the best that the Honolulu and Hilo markets afford, and considering the distance from headquarters, it is more than the average traveler usually expects. Mr. Wilder, the head and front of the company shows by his enterprise his belief in the adage that "what is worth doing is worth doing well." Experienced and careful guides are assigned parties as required, and animals are well cared for to facilitate travel and modify any discomforts. As an evidence of how thoroughly in earnest the company is to save the time and fatigue of the journey, they have lately completed a carriage road from the volcano to the pali, four miles from Keauhou.

At the time of our return, early awaking was necessary in order to breakfast and start by five o'clock. Pack animals with baggage had been sent ahead and just at the dawn of day a goodly company of satisfied tourists cantered forth under the charge of Manager Maby for Keauhou, 14 miles distant, to meet the steamer. The road led through an open forest, for the most part, for a distance of 10 miles. A couple of miles from the house, our attention was called to a large sunken crater to the left of the road. Daylight was not strong enough to afford us a view of its extent, but there was sufficient to show it an entrancing spot filled with forest and fern. Easy cantering brought us to the pali just as the *Kinau*, returning from Hilo, changed her course to head in for the landing. The next four miles in a zigzag course down this lava section of country was not the most comfortable or fastest kind of traveling; but we made good time and the feminine portion of our party felt no fatigue from the journey.

Keauhou, the nearest landing to the volcano, is the property of the Wilder's Steamship Company. It was once a prominent shipping point of pulu and goat skins; these products having once figured prominently in our exports, toward which the Puna district contributed an important share. Keauhou will hereafter be known principally in connection with the new route to the volcano, which route was inaugurated June 23, 1885.

Wind and waves were propitious at our embarkation, there being no delay or mishap of any nature. Purser Beckley met us at the landing and received again into his charge the company entrusted to Manager Maby's care two days before. We were no sooner on board than the *Kinau* continued her course to complete the circuit of the Island of Hawaii, which is her route the week she makes the volcano trip. She soon ran down the weather coast, passing the several Kau plantations

and rounding South Point, with its contending currents, into the smooth water of the Kona coast. Here, I devoted attention to the steamer itself. In many features the *Kinau* is a smaller *Mariposa* or *Alameda*, which is natural, since they were built by the same firm, for the same parties originally, and all for the Islands, to serve its foreign and coasting trade. Captain King and his officers take pride in their charge, and the work of the boat is evidently in careful hands. The staterooms are spacious and kept with neatness by obliging attendants, while the table fare is the best the market affords. By invitation of the chief engineer, a tour of inspection of the engine-room was made in the evening, under the advantage of the electric light with which the vessel is supplied. Everything was running smoothly and in first-class order.

Kawaihae was our first stopping place on this side, which we reached a little after dark. Its ancient glory has departed, though it still rejoices in the possession of the last completed and consequently best preserved heiau (temple) on the Islands. From here we steamed on to Mahukona, the port of entry and shipping point for much of the produce of North Kohala and terminus of the Kohala Railroad, another of Mr. Wilder's enterprises. The *Kinau* lies at Mahukona until 3 P. M. This gives passengers an opportunity for a trip by rail into a famous sugar district which has developed largely of late years through the push and energy of its leading men. The interests of the railroad, Wilder's Steamship Co., and the mercantile interests of Wilder & Co., are represented at this point by Mr. C. L. Wight.

From Mahukona we crossed the channel, reaching Makena, Maui, about 7:30, and Maalaea at 11 P. M. From this place we touched at Lahaina, another town of departed greatness; once the favored residence of royalty and seat of government, with its political, educational and commercial pre-eminence.

At 5:30 A. M., Sunday, we were off Diamond Head, and a little after six o'clock moored at the wharf in Honolulu, having been absent but eight and a quarter days, of which four days and five nights were spent at the volcano.

An important, but nevertheless natural question to readers, and especially those contemplating a volcano trip, is that of expense. The cost of the round trip, is fifty dollars from Honolulu and back, including steamer fare, charge for horses and conveyance, and for hotel and guide charges at the volcano. This allows two days and nights so as to return by the same vessel. Parties desiring can remain longer at the volcano, the charge for overtime being four dollars per day.

On May 8th, 1886, evidences of returning fire in Halemaumau were seen, accompanied with dense smoke and steam. Rumbling sounds in the earth were also heard, not only in the vicinity of the crater, but several miles distant. Later advices confirmed this report; smoke and heat in the vicinity of Halemaumau being such as to preclude the possibility of near approach. June 25th, the various threatenings of the preceding weeks culminated in the sudden outbreak of a lake in the chasm of Halemaumau, exhibiting, at times, great activity, since which date it has continued its erratic action with steadily growing interest, thus early refuting the croaking idea that Kilauea's volcanic activity had ceased forever. At the present writing, November, there are two distinct active lakes in Halemaumau, with a mound between that is gradually rising in height all the time.

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#### PORTUGUESE IMMIGRATION TO HAWAIIAN ISLANDS.'

BY A. MARQUES.

A FEW words on the history and prospects of this movement cannot be amiss in a work of reference like the ANNUAL, for the reason that most probably the Portuguese immigration will mark one of the phases in the annals of this country, and will bear considerably on our future political economy. At any rate, it cannot be an uninteresting event, that which, in about seven years, brought to these shores and added to our decreasing population over ten thousand people,—many of whom will become permanent settlers—people of an exceedingly prolific race, and of a frugal, hard working kind, just the one which was most required and which would prove most useful for the successful repopulation of these Islands.

It is already many years since Portuguese people began to settle in this country, though the census of 1866 failed to distinguish this nationality. According to the census of 1872 they showed 395, and in 1878 they were 439, only one-eighth of which were females. But it can safely be said that nearly all had been sailors on board the whalers, and were mostly of the Cape-Verde Islands and Madeira. Finding the country agreeable, with good and easy conditions of living—better than they are now—some married Hawaiian or half-white women, whilst a few sent for wives to their own country. Later, attracted by the prosperity of relatives already here, some few others may have come over direct from their native land.



Moreover, the special qualities of sobriety and laboriousness in that race, had not failed to attract the attention of the employers of labor and of the government, and, when the Reciprocity Treaty came to give the well-known impetus to sugar growing, in the midst of the scarcity of labor many suggested that a good class of helpers could be procured from Portugal. The first suggestions, notwithstanding, were sterilised by the idea that the cost of transportation would render this immigration impracticable. Furthermore, at that time, several prominent planters were fascinated by the idea of East Indian and Chinese labor, and Mr. W. M. Gibson gave his influence to the hobby of Malay immigration. It is fortunate that this last turned out impracticable, otherwise, the well-known character of the Malay people would have rendered such importation nefarious to the country. However, toward the end of 1876—after the idea of East Indian immigration had been exploded and when the Chinese immigration had shown its fearful drawbacks, and the Micronesian help had proved insufficient,—a Portuguese subject here, Sr. J. Pereira, (Jason Perry,) who had established in Honolulu the first dry goods store of that nationality, and who was considered as consular agent for Portugal, insisted that a scheme of immigration from Madeira seemed perfectly practicable and advantageous. Be it said to their honor, the then ministers, Messrs. Wilder and Walker, very resolutely took up the idea, and wrote for the advice of the late Dr. Wm. Hillebrand, a former resident of Honolulu, who then happened to be staying in Madeira. To this gentleman, who was officially named agent of immigration, we owe the first load of these people, which however were not procured without extreme difficulty, owing principally to the fact of the Hawaiian Government not being able to offer very liberal terms, and especially no grants of land, to the immigrants.

The bark *Priscilla* was the first one to bring us Portuguese. It arrived from Funchal, Madeira, on the 30th of September, 1878, with 80 men, 40 women and 60 children, in all 180 people. The next ship—*Ravenscrag*—was sent by Messrs. Hoffnung of London, their agent in Madeira, Mr. Hutchinson, having been named Hawaiian Consul and agent of immigration, and arrived here on the 25th of August, 1879, with 133 men, 110 women, and 176 children, in all 419 people. These two ship loads brought immigrants which did not give all the possible satisfaction to the planters, for the reason of their having been carelessly made up of town's people instead of bringing alone agriculturists and people from the country districts. But a better class arrived, again from

Madeira, on the 21st of January, 1880, in the *Highflyer*: 104 men, 81 women and 147 children; 332 in all.

At this time, the immigration from Madeira was suspended, under the pretext of too great expense, and Hoffnung & Co., applied to S. Miguel in the Azores, from whence the *Highflyer* arrived here on the 2nd of May, 1881, with 173 men, 66 women, and 113 children: in all 352. Then followed the *Suffolk* with 206 men, 100 women, and 182 children: in all 488. In December, 1881, His Ex. H. A. P. Carter, was appointed Ambassador to Portugal, to obtain greater facilities for this immigration, which was in danger of being altogether prohibited by the Portuguese Government, on account of complaints and falsehoods, that emanated from the first immigrants, resulting from the discontent and attrition natural to new people in a new country and new surroundings. Public opinion in Portugal had been so aroused, that the government had to send here to inquire into the facts, a Special Commissioner, Mr. A. de Souza Canavarro, who still represents his government as Commissioner and Consul at the Court of Hawaii.

Matters having been investigated and a special treaty having been signed in Lisbon by Mr. Carter, immigration was resumed, and on the 27th of March, 1882, the *Earl Dalhousie* arrived from San Miguel, with 94 men, 82 women and 146 children: in all 322. Then followed from the same place, on the 8th of June, the *Monarch* with 202 men, 197 women and 458 children: in all 857. On the 11th of September the *Hansa* with 307 men, 286 women and 584 children: in all 1,177. On the 4th of May, 1883, the *Abergeldie* with 945 people; on the 8th of July the *Hankow* with 427 men, 317 women and 718 children: in all 1,462; and on the 1st of November, the *Bell Rock* with 396 men, 294 women and 715 children: in all 1,405.

The next year, the Azorians having been found less disposed to immigrate, on account of better crops in their country and greater attraction towards Brazil, the recruiting efforts were again turned toward Madeira, and on the 13th of June, 1884, arrived here from Funchal the *City of Paris* with 295 men, 199 women and 330 children: in all 824; then followed on the 3rd of October the *Bordeaux* with 273 men, 173 women and 262 children, in all 708; on the 19th of January, 1885, the *Dacca* with 63 men, 50 women and 165 children, in all 278. Then followed an interruption of a year and on the 4th of March, 1886, the *Stirlingshire* arrived with 157 men, 107 women and 203 children, in all 467; followed on the 23rd of September, 1886, the *Amana* with 150

men, 101 women and 237 children, in all 488 which are said to be of the best kind and the most satisfactory to employers ever imported.

These figures, taken from official records, bring the Portuguese immigration to a total of 11,704. If we add to this the official figures of Portuguese, enumerated in the census of 1878, we find that 12,140 is the lowest possible calculation to be made of the present Portuguese colony in these Islands, for the reason that the numerous births which have occurred here, more than compensate for the number of deaths and of departures of the few who, at the expiration of their contracts, have left the country for California, or to return back to their native shores.

Outside of the numerical importance of these people, who thus constitute nearly one-sixth of the whole population, their moral value has proved very great. In spite of their being generally illiterate and ignorant,\* they are intelligent, active, steady and assiduous workers. The reports of the courts show to their credit that the criminality amongst them is very low, probably lower than amongst any other nationality here, and immensely lower than that of the Chinese, Japanese, and Hawaiians; and during the last Legislature, Minister Gibson was compelled, by the force of facts, to acknowledge their merit in words to the effect that the Portuguese were the most quiet and orderly people; that they gave the least trouble, and that it would be an immense relief to the Government if all the immigrants introduced here were like the Portuguese.

As to their importance for the future of this country, it will be sufficient to point to three facts: (1) They are willing, not only to remain here and make this country the abode of their children, but even to take interest in the political questions of this nation. They are all eager, on the expiration of their contracts, to secure a homestead, and in fact those who have left, have only done so, as a rule, when they found that it was next to impossible to buy land to settle on. And let it here be said that it is a shame on the Government that no real, sincere effort has been made to enable them to secure government or crown lands, as they would constitute exactly the class of small farmers which is lacking and needed here, and which makes up the strength of a nation. (2) They will contribute, more than any other class of im-

\* According to information given in the last official census (1884), in Honolulu alone, there were 7000 Portuguese, 60 of whom were below six years of age, thus leaving 240, out of which only 100 are noted as able to read. But, in the population of the plantations and out-districts, the proportion of illiterates is far greater, as it is precisely the most literate who settle in Honolulu. On some plantations, the proportion of Portuguese men who know how to read has been found to be as low as 20 per cent. Of the women, the census fails to give any information, but in the Azores and Madeira it is considered that there is a greater proportion of girls than of boys who learn to read and write, but even there the number of literate women is less than fifty per cent.

migrants which could be possibly introduced here, towards rapid repopulation, as the usual proportion of their families varies from 4 to 12 or more children. (3) The children take with wonderful facility to learn the English language and costumes, which shows a happy disposition for assimilation. In point of religion, they are all Catholics, but of a liberal, easy and quiet nature which, even were they to be here in the majority, would never cause them to conflict with other creeds.

In what regards the capacities and probabilities of a continued Portuguese immigration, it will be sufficient to consider the past. All planters who have treated them well, have been unanimous in their praises of the Portuguese and acknowledge that they give better satisfaction than any other class of laborers; and even those who were prejudiced against them at first are now turning to view them with more favor, so that if no mysterious, subterraneous causes do not act to oppose it, it is probable that the Portuguese immigration, which is to be shortly resumed again, will, for the future, furnish this country with all the labor it needs. If the actual government, whose partiality for Japanese is well-known, remains impartial and neutral, the capabilities of the Portuguese islands to furnish us with desirable immigrants are practically unlimited. Even admitting that Madeira could be drained, it will be enough to remember that the people of San Miguel are again willing to come here, and further it must be said that, for some mysterious cause best known to the agents who concoct immigration schemes, the recruiting in the Azores has hitherto been confined to San Miguel, whilst it is an incontrovertible fact that a much larger current—regular and steady—of immigration could be obtained from all of the other eight islands which constitute the Azorean Archipelago.

Furthermore, a very desirable class of intelligent and more literate agriculturists could be obtained from the continent, from Portugal itself—not, of course, as it was once proposed and fortunately failed, from Lisbon—but from the country districts and especially the region around Oporto. Should the planters investigate the subject this assertion can be readily sustained.

Therefore, for the good of this country, for its repopulation by small farmers, as well as for the interest of those planters who desire the best class of labor, it is to be hoped Portuguese immigration will be continued on a larger scale than before, and that every effort will be made—if not by the Government, at least by private parties who can do it—to keep these people here by proper land inducements.

## HAWAIIAN POETICAL NAMES FOR PLACES.

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THE study of Hawaiian dirges, elegies and chants, shows some characteristic features, worthy of special consideration. It is natural that an uncultured race should give time and thought and appreciation to the observation of individual traits and striking physical characteristics, rather than to those reflections on abstract principles of conduct, and to that analysis of motives, which distinguish the master-pieces of modern *belles-lettres* in Europe and America.

A prominent characteristic of Hawaiian poetry is the enumeration of names of places, associated with the persons, whose memory is perpetuated in their songs. When rank is made to depend so much on the accident of birth, a mere recital of the family pedigree is equivalent to the display of the greatest earthly treasures. Hawaiians will commit to memory the genealogical tables given in the Bible, and delight to repeat them, as some of the choicest passages of the Sacred Scriptures. A register of names,—of the membership of some society, for instance,—is intensely interesting, calling to mind, as it does to them, the various facts connected with the different individuals. In the Hawaiian chant (*mele*) and dirge (*kanikau*), the aim seems to be chiefly to enumerate every place associated with the subject, and to give that place some special epithet, either attached to it by common place repetition, or specially devised for the occasion as being particularly characteristic.

Just as our orators and essayists in the States will appeal to the people whose territory “extends from the stormy shores of the Atlantic to the misty coast-line of the Pacific,” or “from the Lakes to the Gulf of Mexico,” so the Hawaiian speaks of the Hawaiian group, “the islands of the eight seas,” “from the rising of the sun over the famous promontory of Kumukahi to its last lingering rays as it sinks below the waves behind the lovely, lonely isle of Lehua.”<sup>a</sup> The Islands themselves have their special epithets, as the recognized favorites of different divinities or heroes, or mythical personages perhaps. Hawaii is thus assigned to Keawe, Maui to Kama, Molokai to Hina, Oahu to Kakuihewa, Kauai to Mano.<sup>b</sup> But just as we have more homely and familiar titles for the

<sup>a</sup> Mai ka la oni ae ma Mākanani i ka lāe kaulana o Kumukahi, a ka la welo i ka ilikai malalo aku o ka mole olu o Lehua i ka wai huna a ka Paoo.

<sup>b</sup> Hawaii o Keawe, Maui o Kamalalawalu, Molokai nui a Hina, Lanai o Kaululāu, Oahu o Kakuihewa, Kauai o Manokalanipo, Niihau o Mano-opu.

different states, "the Old Bay State," "the Granite State," or "Little Rhody," and "the Nutmeg State," so the Hawaiians speak of "Molokai, the land that lies edgewise to the wind," or "Kauai, the island that takes away the sun," "Oahu people that stare at a hungry man," "Maui folks that make a smudge with their breadfruit leaves," "Honuaula country folks who try to scale a squid."<sup>c</sup>

Each different channel and bay has some characteristic epithet. What seems to the passing voyager a monotonous expanse of ocean, a dreary waste of waters, has its distinct tracts with well-known limits, marked by some individual peculiarity. There are "the dark-blue waves of the Hawaii channel," "the chopping seas of the Molokai passage," "the whispering water of Kawaihae," "the tides that wash the pandanus groves of Puna," "the stormy billows of Niukukahi," and other curiously varying designations.<sup>d</sup> Some localities are favorite gathering places for the enjoyment of surf-riding, the popular pastime throughout these Pacific seas. Lahaina has its "broken crested surf of Uo," Waikiki its "flecked foam like the opening Lehua blossom;" and others • are famous in honor of the exploit of some athlete who there achieved a reputation, and bequeathed his name and fame to the scene of his triumphant skill and agility.<sup>e</sup>

But the most common designation of any place is from its characteristic rain. It would be illogical, however, for the casual reader, or chance visitor, to draw the inference that weeping skies and pelting storms are common incidents of life at the islands. Such is not the fact. A chief charm of life in Hawaii is the continuous pleasantness of the weather, day after day, so that in most localities any work can be done out of doors, 352 days out of 365. There are exceptions, of course, to this general statement, both in localities and in individual experience. Hilo people are not fond of the tourists' phrase, "Well, this is genuine Hilo weather," as they started out between pouring showers for the old-time 30 miles' ride to the Volcano. There is no word for "weather" in the Hawaiian language. Perpetual sunshine is "the order of the day" for month after month, so that rain when it does come, is a novelty, and generally speaking, a very limited local affair. It comes in narrow streaks of wet, and the roads are as changeable as Gideon's fleece,

<sup>c</sup> Hawaii palu la'i, Maui puih lau ulu, Oahu maka ewaewa, Kauai poo hakahaka.

<sup>d</sup> Na ale uliuli o ke kai kowa o Alenuihaha, na ale hanupanupa o Pailolo, ke kai rehe i ka uluhala o Puna, ke kai hawanawana o Kawa'hae, ke kai lumalumai o Kewalo, ke kai leo nui o Niukukahi, Punaluu i ke kai kauhaa a ka malihini.

<sup>e</sup> Ka nalu haimuku o Uo, ka nalu hai o Keanini ma Kapueokahi, ka nalu o Kalehuawehe ma Waikiki, ka nalu hee o Pamano ma Mokulau i Kaupo.

now dry, now soaked, as one rides along a few miles, perhaps even every few rods. Not because of its commonness, but its uncommonness, comes the local epithet, specially applicable to the rain in dry locality. In Honolulu, we have "the rain that knocks at the house;" "the rain that spoils the clothes" is the abundant moisture of Nuuanu valley; and there is "the drizzling rain" of Makiki, and "the almost interceptible drops" of Waikiki. Maui has at Hana "the rain of the low lying heavens," the rain "that pricks the skin" at Waiehu, "the fine mist" of Waihee, "that drives one to the rocks for shelter" at Kaupo, the "rain-bow-forming" rain of Pihiolo, "the driving chilling rain" of Makawao. Hilo has its rain "that makes the Lehua blossom quiver," "the good time for catching fish," "the blast that comes broad-side on." Kohala storms are of the kind "that leaves nothing that's loose." Waimea rain "comes down like small shot." Kauai has its "soaking rain of Hanalei."<sup>f</sup>

The north-east "trade-wind," blowing steadily from that quarter almost ten months out of twelve, brings gladness and growth, comfort and contentment with its balmy breath. But there are marked differences in the accompaniments in different localities, and some decidedly disagreeable variations from the general agreeable uniformity. Thus Kawaihae bay has its "cut-away" style of wind, that comes suddenly down the mountain gorges, rushing like the demonized herd of swine down into the sea, all gone in a moment. Hilo has its "gently breathing zephyr" as well as its "dew-laden" and "water-bringing" winds. Kaupo's breezes "kiss the cheeks," while the wind comes down at Hana, "rushing like the Hawaiian toboggin."<sup>g</sup> The wind rushes over the mountains some times, like waters that have been dammed up, gathered immense volume, and then broken loose, carrying everything before them with irresistible force. Waianae with its precipitous mountain side on the east has only "the one-sided" afternoon sun. Kaneohe has its "singing snails." Ewa its "soft voiced waters." Nohili its "barking sands."<sup>h</sup> Every locality,

<sup>f</sup> Ka ua kukalahale o Honolulu, ka ua o Kawaobio, ka ua kuahine, ka ua waahila no Manoa, ka ua popokapa no Nuuanu, ka ua puanaie no Waikiki, (ka ua maka wiwi), ka ua makaukiu no Makiki, ka ua poohale no Kahala, ka ua loku o Hanalei, ka ua lani paina o Ulupalakua, ka ua apuakea o Hana (ka ua lani baahaa), ka ua hoeha ili o Waiehu, ka ua kilioo o Waihee, ka ua peepohaku o Kaupo, ka ua stalena o Pihiolo, ka ua ukiuki o Makawao, ka ua paupili o Lele, ka ua nihi aa o Kawaihae, ka ua makani lau awa o Hana, ka ua oninipuaia i ka moana, ka ua kanilehua o Hilo, (cheele e panopano i ka ua), a me ka ua hukiheenehu, ka ua hali i ka nahele, ka ua lili lehua o Panaea; ka ua moanani lehua o Puna, ka ua kaulaau o Maka, ka ua apaapaa o Kohala, ka ua kipuupua o Waimea, ka ua nalu o Kawaihae-uka, ka ua pupuhale o Hamakua, ka ua paa o Waiohinu.

<sup>g</sup> Ka mumi o Kawaihae-kai, moae aala o Puulena, malua kii wai o Hilo, (malanai, kehau, panikua), kaili wai o Huanu, maau o na ulu o Lele, kololio o Waikapu, ka ahaaha lai o Waihee, ka ua aloha o Kipahulu, honihoni papalina o Kaupo, koholapehu (koholalele) o Hana, pai Olopana, hoolua o Kama, kaula o Waianae, holo uha o Kekaha, ho'e o Moanalua, kuehu lepo o Ewa (anu mau).

<sup>h</sup> Ke oe lani o Nohili, ka la kapakahi ma Waianae, ke ehukai o lalo o Puana, ka i'a hamau leo o Ewa, ka wai lili o Kua, na pohaku nee o Kaupo, ka wahine ami o Haena, na ilili o Koloa.

too, that has any remarkable natural feature, spring, or headland, grove or pool, has some legend associated with it. It is a pity that no collection has yet been made of these Hawaiian legends, that bring the charm of some association with human character and conduct to loveliness as delightful as the vale of Tempe, or to some difficult defile of Thermopylae, the decisive point in some historic conflict. Space would fail me, in the narrow limits of an article for the ANNUAL, even to enumerate such localities on the different islands. But enough has been said to indicate the vein of poetical imagery in Hawaiian song from which these specimens have been taken, while to other hands, or other years, must be left the work of delving in the mine of Hawaiian legendary lore.

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#### RETROSPECT FOR THE YEAR 1886.

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THE year 1886 has been full of memorable events and the Kingdom of Hawaii has had her due proportion for weal and woe, not the least significant of which was the election for representatives to the Legislative Assembly, which took place throughout the islands the first Wednesday in February, as by law provided. Much interest was felt and taken throughout the islands in election matters, and active agents for government and opposition candidates were early in their respective fields. The result was largely in favor of the government party. It is a matter of regret that questionable irregularities at the polls in several districts were condoned by the Assembly, the most flagrant of which was the case of Kekoa, representative for Puna, notwithstanding his conviction of violation of the statutes prescribing the duties of Inspectors of Election at the term of Circuit Court held at Hilo in June, which the Assembly refused to act upon, though their attention was called thereto by Judge Preston who presided at the trial. The independent minority, while laboring against great odds, nevertheless fought nobly against iniquitous and extravagant measures whenever they were presented. The session of 1886 goes on record as the longest, so far, in Hawaiian history, having sat one hundred and twenty-nine working days, besides taking a two weeks' vacation to allow the Assessor-Representatives to visit their districts, to nominally attend to assessing duties within the time specified by law.

The Legislative Assembly convened April 30th, and was prorogued on the 16th of October, during which time it witnessed two changes of



Ministry. For reasons not explained to the Assembly a change of Cabinet occurred July 1st as follows, viz: W. M. Gibson, Minister of Interior, vice C. T. Gulick, resigned; J. T. Dare, Attorney-General, vice P. Neumann, resigned; R. J. Creighton, Minister of Foreign Affairs, vice W. M. Gibson, resigned; and P. P. Kanoa, Minister of Finance, vice J. M. Kapeha, resigned. October 13th, the cabinet was changed again to—W. M. Gibson, Minister of Foreign Affairs; P. P. Kanoa, Minister of Finance; L. Aholo, Minister of Interior, and J. L. Kaulukou, Attorney-General. Ten days later Mr. Kaulukou resigned from the Cabinet, and resumed his position of Marshal. On the 15th of November the Cabinet was again made complete by the appointment of Mr. Antone Rosa as Attorney-General.

The recommendation to the Assembly by Royal Message for economy in the appropriations was repeated again the past session, but the result was a more flagrant disregard thereof than that of the session of 1884. A new budget, in accordance with the royal message, was presented to the house June 23rd, which called for \$2,583,170, a reduction of \$187,640 from the first budget presented. When the consideration of the appropriation bill was concluded it reached the liberal sum of \$4,552,477. Under the plea of meeting some of its provisions, a \$2,000,000 loan bill was passed which obtained cabinet support, though the Ministry on several previous occasions maintained that a new loan was entirely uncalled for and was not a contemplated government measure.

Notwithstanding protests to the house, and pleadings with the King, against licensing the sale and use of Opium, the true friends of Hawaii have to regret that their efforts were futile to stem the tide of iniquity which threatens her, as the act passed the house and received royal signature. A summary of the work of the session shows 331 petitions and 201 resolutions presented, and 177 bills introduced of which 80 passed the house. Of these, 69 became law and 11 were vetoed.

Official changes, besides the cabinet, have been numerous during the year, but when "fitness for office," as a rule, stands aside for personal preferences, it is not strange if few of the appointments meet public approbation, and solicitations are expressed as to the outcome of the policy of "Hawaii for the Hawaiians."

The rainfall throughout the islands has been fairly distributed, though in a few localities loss of stock and injury to crops have been experienced. In Honolulu it is noticeable that the extension of tree planting has materially affected the atmosphere, and given frequency of light showers through the year that has had its effect in the water supply. The

year 1886 is the first for a long time that the water supply has not been cut down during summer, nor irrigation restricted to certain hours. This has been due, mainly, to the success of Water Superintendent Wilson's syphon method of connecting Kapena spring with the reservoir.

The work of pipe laying to bring the supply of water from Luakaha, Nuuanu valley, instead of by open courses, was begun in August last, and connection with the mains at Judd street made in September. This will not only ensure a larger, but purer supply, and by this increase it is estimated that the annual revenue to the government will be largely augmented.

On Sunday, April 18th, Honolulu was visited with the most serious conflagration known in her history, almost obliterating that portion known as "Chinatown;" destroying property estimated at, probably, \$1,000,000, of which but \$316,675 was insured. The fire broke out in Hotel street, near Smith's Lane at about 3. P. M., and burnt with such rapidity that by 8 P. M., when with the fall of the old Bethel Church its fury abated, it had made a clean sweep from Paiko's block, Nuuanu street, to the Nuuanu stream, and as far east as the old International Hotel and Castle & Cooke's buildings; going down seaward as far as a line drawn from the Sailors' Home to the upper part of the Iron Works premises, and so on beyond Maunakea street to the water. Marines from the English men-of-war *Satellite* and *Heroine*—which vessels were in port at the time—rendered efficient aid to the Fire Department and authorities in staying the flames and saving property. Government and private aid was tendered to any of the many persons thus suddenly rendered homeless, requiring assistance, but comparatively few availed themselves of the proffered help.

Steps were early taken to widen and increase the number of streets in the burnt district, as also to materially extend the "fire limits." As a consequence, nearly the whole of the re-built portion to Maunakea street is being rapidly re-built in brick, many of the buildings being in large blocks, which is greatly improving the appearance of the city.

The period under review has been a remarkably successful one to the sugar planter so far as the yield is concerned, which helps somewhat to offset the extremely low prices that have ruled throughout the year. This increased production is due mainly to the improved machinery added to many of the mills last year, as recorded in our last Retrospect. Up to September 30th, the sugar exported exceeded our last year's total sugar exports by over a million pounds. The heavy strain on many of the mills for this production caused not a few break-downs and consequent serious delays in grinding during the early part of the season, but

through the efficiency of the Honolulu Iron Works Co., new shafts or rollers soon replaced the injured machinery.

Rice will show a material falling off again in exports this year, partly owing to a slightly diminished yield, but mainly from an increased local consumption, since it is to be borne in mind the islands have now over 20,000 Chinese and 2,000 Japanese with whom rice is their naturally preferred food.

Our other articles of produce for export seem to be narrowing down all the time. In view of this fact, it is encouraging that government aid is to be accorded to the new enterprises of ramie and cinchona culture, and taro flour exports. Banana culture has not proved remunerative of late, consequently a falling off is perceptible in the list of exports this year, though it is to be hoped that the modification in the future freight rates per steamers will render this branch of agriculture more profitable again.

The Import trade of the islands has exceeded expectations in that there has been no diminution of customs revenue. With the increased building activity resulting from the fire, a large increase in the importation of all kinds of building material has taken place, though this all comes under the free list. For the nine months ending September 30th the totals of imports at all ports were \$4,324,646.06 against \$3,193,534.93 for the same period of 1885, a gain of \$1,131,111.13, as shown by the following table :

JAN. 1 TO SEPT. 30.	VALUE FREE BY TREATY.	GOODS DUTI- ABLE.	SPIRITS AND GOODS BONDED	FREE BY CIVIL CODE.	SPECIE.
1886.....	\$2,107,652.46	\$1,098,617.13	\$ 200,272.72	\$ 202,001.15	\$ 716,102.60
1885.....	1,593,837.49	734,723.20	141,843.71	162,047.18	561,083.35
INCREASE.....	\$ 513,814.97	\$ 353,893.93	\$ 58,429.01	\$ 39,953.97	\$ 155,019.25

The customs revenue for this period from all sources was \$437,846.27, against \$374,162.71 for the corresponding period of 1885. Passenger movements for the same period of 1886 show a total of 3,582 arrivals, of which 1,552 were Chinese, 930 were Japanese, 998 were Portuguese, and the balance, 1,102, were of all other nationalities. It is to be regretted that the departures for this same period have been so great as to largely offset this, still we have a gain for the nine months of 647 souls. For the above particulars and figures we are indebted to the courtesy of Collector-General Kapena's staff.

Immigration has had a share of government attention during the year, a further supply of Japanese and Portuguese having arrived, and, we have to add, a steady stream of Chinese not restrained, notwithstanding the Foreign Office alleged limitations, or restriction "regula-

tion," on this class of immigrants. A further attempt is also being made to procure another supply of laborers from the South Sea Islands.

Since the fire of April already referred to, building activity has been continuous, not only in the burnt district but in other directions, both in business houses and dwellings, with considerable additional yet in contemplation. We have to record the tearing down of the Sailors' Home in October last past, because of damages sustained at the time of the fire, and for the modification of fire risk in the business centre of the city. A new building more in keeping with the present needs of the port will probably be erected in its stead on a portion of the lot. The site of the old Bethel Church has been disposed of by auction, and a new and more appropriate building lot selected on the corner of Richards and Beretania streets. Plans for the new edifice are under consideration at the present writing. In the interim the congregation are occupying the Lyceum, kindly placed at their disposal by Mr. J. T. Waterhouse. Kaumakapili church has completed its second steeple and is bringing its internal fittings to a completion as rapidly as its contributions will allow. Kawaiabao church has also made substantial external improvements. Work upon the new Anglican Cathedral has been interrupted for some time past, but is being taken in hand again looking to an immediate occupancy of the chancel already erected. Through the liberal bequest of the late Mrs. B. P. Bishop for educational purposes, work is already commenced for the early establishment of the boy's Kamehameha school, at Kalihi.

The coasting fleet have suffered more than usual the past year, the principal reverses falling on the Inter-Island Steam Navigation Company in the total loss of the *Planter*, on Niihau, just at the opening of the sugar season; the grounding of the *C. R. Bishop* at Waialua, from which perilous position she was hauled off and towed back, with loss of keel, etc., to port by the *W. G. Hall*; and recently the latter vessel had a narrow escape from total loss by fire at her wharf, at Honolulu, from supposed spontaneous combustion among freight stowed below. The steamer *J. I. Dowsett* foundered, with a full cargo of sugar, from collision with the schooner *Moi Wahine*, and the steamer *Kapiolani* sunk off Pearl river. Among schooners we have to note the total loss of the *Domitila* with all on board in the Hawaii channel, supposed to have capsized in a squall. Details are given in our list of marine casualties.

Foreign shipping have continued active throughout the year, several new vessels, built expressly for the island trade, having taken their place in the service, as was intimated in last year's ANNUAL in our article on "Packet Lines." These, with the regular monthly call of the Australian

steamers and the somewhat interrupted semi-monthly line between Honolulu and San Francisco (this year) have allowed our produce to be sent to market in larger monthly quantities than in former sugar seasons.

On the night of the 6th of March last, the Volcano of Kilauea, after a period of severe shocks and rumbling sounds suspended activity entirely, and remained in a dormant state till the latter part of June, a longer period of quietude than ever before known; particulars of which phenomenon are given in an article on the subject elsewhere in this issue.

The necrology record since November last year claims again a number "whose works do follow them," among which we note Mrs. D. B. Lyman of Hilo, Mrs. G. Armstrong of Waihee, Rev. Lorenzo Lyons of Waimea, L. L. Rice and Thos. Brown of Honolulu, as also J. P. Green, W. B. Wright, J. D. Wicke, John Lishman, E. C. Henson and others.

Special effort was made in Honolulu for the celebration of the 50th birthday of the King, November 16, 1886. With an appropriation of \$15,000 from the public treasury a series of sports and festivities to last two weeks were contemplated, and carried out as far as weather permitted. Some of the events claimed considerable public attention, and no doubt were of interest, but it is by no means commendable that such an event should warrant the frivolous waste of public funds, or give encouragement to the revival of the lascivious hula. As the period is now looked back upon, with the lapse of only a few weeks, there is naught that can be pointed to with pride for so memorable an occasion during His Majesty's reign.

#### MARINE CASUALTIES, 1885-86.

Nov. 25, 1885.—Sloop *Sarah* stranded on the east side of entrance to Honolulu harbor, but was afterward lightered off and repaired.

Nov. 30, 1885.—Steamship *Zealandia* while entering the harbor at night collided with the steamer *C. R. Bishop*, but fortunately did no damage.

Dec. 13, 1885.—American brigantine *Hesperian* parted one of her cables, and dragging the remaining anchor drifted onto the reef at Kabului, Maui, and became a total wreck. All hands were saved through the bravery of a boat's crew of natives. The vessel was insured for \$5,000.

Dec. 14, 1885.—Schooner *Domitila* left Honolulu for Hilo and is supposed to have capsized in the Hawaii channel and all on board perished, as the schooner *Waimalu* reported falling in with her, bottom up, Feb. 3, 1886, 20 miles off Kohala, Hawaii.

Jan. 28, 1886.—Steamer *Planter* went ashore on Niihau and became a total wreck. Fortunately no lives were lost, and by strenuous effort nearly all of her machinery was saved.

Feb. 14, 1886.—American steamship *Mariposa* had a couple of her boiler flues blown out just as she was leaving port for San Francisco, whereby two men were killed and two others badly wounded. After a detention of 14 hours for repairs she proceeded on her voyage.

March 3, 1886.—American ship *Austria*, en route from Newcastle, N.S.W., with coal, encountered a heavy cyclone in which she lost a suit of sails; had her decks swept clear; her boats stove in, and lost one overboard.

• March 20, 1886.—American barkentine *Discovery* lost her fore-top-gallant and royal mast during a heavy squall en route from San Francisco to Honolulu.

April 23, 1886.—Norwegian bark *Jalsalfarer*, from Newcastle, with coal for this port, caught fire and was abandoned at sea. The crew were picked up by the American bark *Jas. S. Stone*, en route from Honolulu to Hongkong, after being nine and a half days in their open boats. They were afterward transferred to the American ship *Kate Davenport* and brought to port.

June 20, 1886.—Steamer *Jas. I. Dowsett* and schooner *Moi Wahine* collided in the Molokai channel, whereby the former sunk, with a full cargo of sugar. The crew took to the boat and made for the Molokai shore, while the *Moi Wahine* returned to Honolulu for repairs. No lives lost.

June —, 1886.—Steamer *Kapiolani* foundered off the mouth of Pearl river, Oahu. Efforts were made to raise her, but they were ineffectual.

July 15, 1886.—British ship *Dunnotter Castle*, en route from Sydney, N.S.W., to Wilmington, Cala., went ashore on Ocean Island. July 24th a crew of seven was dispatched to these islands in the ship's life boat for assistance, and after a 52 days' passage, made tedious by boisterous and contrary winds, they reached Kalalau, Kauai, arriving at Honolulu by the steamer *James Makee* Sept. 13th. The steamer *Waialeale* was immediately chartered by the British commissioner and left port the next day to rescue the survivors. Arrived at Ocean Island Sept. 20th, and found that the crew had been rescued by the *Birnam Wood*, from Hongkong bound to Valparaiso, having been on the island 33 days.

Oct. 24, 1886.—Steamer *W. G. Hall* caught fire at her wharf in Honolulu, between 1 and 2 o'clock, A.M., from supposed spontaneous combustion among stowed cargo. She was saved after strenuous efforts by the entire Fire Department. A number of beams and the

engine room bulkhead were badly charred and had to be replaced ere she renewed her coasting service.

Nov. 30, 1886.—American barkentine *Amelia*, with lumber for Hilo, drifted into a perilous position at Wainaku, but by prompt assistance and jettisoning part of her deck load, she was saved.

Dec. 12, 1886.—An alarm sounded for fire on the steamer *Mokolii*, which caught in the paint room. It was soon extinguished, with but little damage.

### TIME TABLE FOR THE AUSTRALIAN AND SAN FRANCISCO MAIL SERVICE FOR 1887.

[SUBJECT TO CHANGE.]

OUTWARD.

HOMEWARD.

Leave San Francisco Saturday, 2 P. M.	Arrive Honolulu Saturday.	Arrive Auckland Thursday.	Arrive Sydney Tuesday.	Leave Sydney Wednesday.	Leave Auckland Monday.	Leave Honolulu Saturday.	Arrive San Francisco Saturday.
1887.	1887.	1887.	1887.	1887.	1887.	1887.	1887.
Jan. 15	Jan. 22	Feb. 3	Feb. 8	Jan. 26	Jan. 31	Feb. 12	Feb. 19
Feb. 12	Feb. 19	Mar. 3	Mar. 8	Feb. 23	Feb. 28	Mar. 12	Mar. 19
Mar. 12	Mar. 19	Mar. 31	Apr. 5	Mar. 23	Mar. 28	Apr. 9	Apr. 16
Apr. 9	Apr. 16	Apr. 28	May 3	Apr. 20	Apr. 25	May 7	May 14
May 7	May 14	May 26	May 31	May 18	May 23	June 4	June 11
June 4	June 11	June 23	June 28	June 15	June 20	July 2	July 9
July 2	July 9	July 21	July 26	July 13	July 18	July 30	Aug. 6
July 30	Aug. 6	Aug. 18	Aug. 23	Aug. 10	Aug. 15	Aug. 27	Sept. 3
Aug. 27	Sept. 3	Sept. 15	Sept. 20	Sept. 7	Sept. 12	Sept. 24	Oct. 1
Sept. 24	Oct. 1	Oct. 13	Oct. 18	Oct. 5	Oct. 10	Oct. 22	Oct. 29
Oct. 22	Oct. 29	Nov. 10	Nov. 15	Nov. 2	Nov. 7	Nov. 19	Nov. 26
Nov. 19	Nov. 26	Dec. 8	Dec. 13	Nov. 30	Dec. 5	Dec. 17	Dec. 24
Dec. 17	Dec. 24	Jan. 5 '88	Jan. 10, '88	Dec. 28	Jan. 2, '88	Jan. 14 '88	Jan. 21 '88

\* Or immediately on arrival of the English mails.

### STEAMER "AUSTRALIA," TO HONOLULU.

TIME, SEVEN DAYS.

LEAVE SAN FRANCISCO.		RETURNING, LEAVE HONOLULU	
1887.	1887.	1887.	1887.
January 5	July 20	January 19	July 6
February 2	August 17	February 16	August 3
March 2	September 14	March 16	August 31
March 30	October 12	April 13	September 28
April 27	November 9	May 11	October 26
May 25	December 7	June 8	November 23
June 22			December 21

### POSTAL TABLE OF RATES CHARGED TO COUNTRIES IN THE UNIVERSAL POSTAL UNION.

DESTINATION.	Letters ½ oz.	Postals each.	Regis. Fee. §	Papers ea. 2 oz.	Books & Postal Matter. ea. rate of 2 oz.	Samples* ea. rate of 2 oz.
United States, Canada and Mexico...	5 cts.	2 cts.	10 cts.	2 cents	2 cents	2 cents
Great Britain, France, Germany, Japan, ports in China having U. P. U. offices, Manila and Straits Settlement and all other U. P. U. countries and Colonies.	10 cts.	2 cts.	10 cts.	2 cents	2 cents	2 cents

\* Merchandise samples not to exceed 250 grams, or 8½ ounces.

§ A fee of 5 cents extra is charged for return receipts.

- Mail matter to Asiatic Postal Union Countries sent via Australian mails at Union rates.

### INTER-ISLAND AND COLONIAL POSTAL TABLE.

DESTINATION.	Letters ½ oz.	Postals	Regis. Fee.	Newspapers.		Other Printed Matter
				Limit of each rate.	Postage each rate.	
Inter-Island.	§ 2 cts.	1c	10 cts.	4 oz.	1 ct. †	1 c. pr oz.
Australia, New Zealand, Fiji, Samoa via N. Z.—						
Direct mail	12 cts.	3c	10 cts.	ea. pa.	2 cts.	4 c. pr 4 oz.

§ Drop or city letters or printed circulars 1 cent.

• Books, Samples and Merchandise, 1 cent per ounce; Packages not to exceed 4 lbs.

|| A fee of 5 cents extra is charged for return receipts.

† Pamphlets, Almanacs, Calendars, Magazines and unbound publications, at newspaper rates.

### POSTAL MONEY ORDER RATES.

INTER-ISLAND DENOMINATIONS.	Inter-Island or Domestic.	FOREIGN DENOMINATIONS.	Orders on U. S.	Orders on Eng., Ger. & Port.	Orders on Hongkong.
Orders not exceeding \$ 5	5 cents	Not exceeding \$5	25 cents	25 cents	
Over \$5, and not exceeding.....	10 "	\$5 to \$10.....	40 "	40 "	
Over \$10, and not exceeding.....	15 "	\$10 to \$20.....	60 "	70 "	
Over \$15, and not exceeding.....	20 "	\$20 to \$30.....	80 "	1 00	
Over \$20, and not exceeding.....	25 "	\$30 to \$40.....	1 00	1 30	
Over \$25, and not exceeding.....	30 "	\$40 to \$50.....	1 25	1 60	
Over \$50, and not exceeding.....	50 25c for ea. \$50.				At ruling Bank rates.

**MONEY ORDERS.**—Domestic postal money orders are furnished on application at any of the following money order offices, payable at any other money order office named below:

ON HAWAII.—Hilo, Kohala, Honokaa, Waimea, Kealahakua, Waiohinu, Pahala, Paauilo, Kukuihaele, Hokena, Kailua.

ON MAUI.—Lahaina, Wailuku, Kahului, Hamakuapoko, Hana, Makawao and Paia.

ON KAUAI.—Lihue, Koloa, Waimea, Kapaa, Hanalei, Kilauea.

ON OAHU.—Honolulu, Waianae, Waialua. On Molokai.—Kaunakakai.

Foreign Money Orders are issued, on written application, at the General Post Office in Honolulu, on the United States, England, Scotland, Ireland, Portugal including Madeira and Azores Islands, Germany, China and Hongkong.

Postal Orders on Hawaii can also be drawn in any of the above foreign countries.



## HAWAIIAN REGISTER AND DIRECTORY FOR 1887.

### The Court.

HIS MAJESTY, KALAKAUA, *6*. November 16, 1836; elected February 12, 1874, and inaugurated February 13, 1874. Son of Kapaakea and Keohokalole.

Her Majesty the QUEEN, *6*. December 31, 1835.

Her Royal Highness the Princess LILIUOKALANI, Heir Apparent, *6*. September 2, 1838; *m*. September 16, 1862, to His Excellency John Owen Dominis, Governor of Oahu, K. G. C. of the Royal Orders of Kamehameha and Kalakaua; Kt. Com. of the Orders of Francis Joseph and Isabella Catolica; Member of the House of Nobles and of the Privy Council of State, etc. Proclaimed Heir Apparent to the Throne, April 11, 1877.

Her Royal Highness the Princess LIKELIKE, *6*. January 13, 1851; *m*. September 22, 1870, to the Honorable Archibald Scott Cleghorn, K. G. C. of the Royal Orders of Kamehameha and Kalakaua; Member of the House of Nobles and of the Privy Council of State; has issue Her Royal Highness the Princess Victoria-Kawekiu-Kaulani-Lunalilo-Kalaninuihilapalapa, *6*. October 16, 1875.

Her Royal Highness VIRGINIA KAPOLOKU POOMAIKELANI, sister to Queen KAPILANI, *6*. April 7, 1839.

His Highness Prince DAVID KAWANANAKOA, son of H. R. H. Princess Kekaulike, *6*. February 19, 1868.

His Highness Prince EDWARD ABNEL KELI-ANOHU, son of H. R. H. Kekaulike, *6*. May 13, 1869.

His Highness Prince JONAH KUHO KALANI-ANAOLE, son of H. R. H. Princess Kekaulike, *6*. March 28, 1870.

His Majesty's Chamberlain, His Excellency C. P. LAUREA.

### His Majesty's Staff.

His Ex C P Iaukea, Cols. J H Boyd, G W Macfarlane, and P Ofergelt.

### Equeries in Waiting.

Majors A B Haley, W H Cornwell, S Parker and W P Lumaheihai.

### The Cabinet.

#### His Majesty, THE KING.

Premier and Minister of Foreign Affairs, His Ex W M Gibson; Minister of the Interior, His Ex L Ahole; Minister of Finance, His Ex P P Kanoa; Attorney-General, His Ex A Rosa.

#### Privy Council of State.

#### His Majesty, THE KING.

Honourables H A P Carter, J S Walker, J O Dominis, A F Judd, C R Bishop, A S Cleghorn, J M Smith, S N Castle, S G Rhodes, S G Wilder, H M Whitney, J M Kapena, H A Widemann, R Stirling, J A Cummins, W C Parke, W J Smith, W P Wood, C H Judd, L McCully, W F Allen, W M Gibson, J E Bush, W D Alexander, P Neumann, J Kaee, S Parker, E K Likakani, Luther Ahole, John K Kaunamano, John T Baker, Robert H Baker, Samuel M Damon, Alfred N Tapp, D H Nahimui, Wm G Iwini, J G Hopuli, Fred H Hayselden, Geo Richardson.

### House of Nobles.

Hons C R Bishop, J O Dominis, A S Cleghorn, J J Dowsett, S G Wilder, P Isenberg, J M Kapena, J M Smith, J P Parker, H Kuihelani, G Rhodes, J E Bush, C H Judd, P P Kanoa, J W Kaee, H A Widemann, J H S Martin, George W Macfarlane, J S Walker, S Parker. [The Cabinet Ministers hold seats in the House of Nobles *ex-officio*.]

### Department of Judiciary.

#### SUPREME COURT.

Chief Justice.....Hon A F Judd  
First Associate Justice.....Hon L McCully  
Second Associate Justice.....Hon E Preston  
Third Associate Justice.....Hon R F Bickerton  
Fourth Associate Justice.....Hon A Forander  
Clerk.....Wm Foster  
Deputy Clerk.....H Smith  
2d Deputy Clerk.....J H Reist  
Hawaiian Interpreter.....W L Wilcox  
Chinese Interpreter.....Li Cheung  
Clerk Police Justice Honolulu.....W S Wond

#### Circuit Judges.

Second Circuit, Maui.....  
Third Circuit, Hawaii.....Hon F S Lyman  
Fourth Circuit, Kauai.....Hon C F Hart  
Fourth Circuit, Kauai.....Hon J Harau

#### CLERKS OF CIRCUIT COURTS:

G E Richardson, Second Circuit; Daniel Porter, Third Circuit; R W T Purvis, Fourth Circuit.

### District Justices.

#### OAHU.

David Dayton, P J.....Honolulu  
J Humphreys.....Ewa  
J P Kama.....Waianae  
J Kaluhi.....Koolauloa  
S H Kamakee.....Waialua  
Asa Kaulia.....Koolaupoko

#### MAUI.

A N Kepoikai, P J.....Wailuku  
D Kahaulielio, P J.....Lahaina  
John Kalama.....Makawao  
S W Kaai.....Hana  
M Kealoha.....Honuaula  
S K Kupihea.....Molokai  
R W Meyer.....Leper Settlement, Molokai  
S Kahoolahalala.....Lanai

#### KAUAI.

S R Hapuku, P J.....Lihue  
A W Maioho.....Koloa  
R Puuki.....Hanalei  
E Kahale.....Waimea  
G S Gay.....Niihau  
G B Meheula.....Kawaihau

#### HAWAII.

G W A Hapai, P J.....Hilo  
Z Kalai, P J.....North Kohala  
S H Mahuka.....South Kohala  
B Naaikauna.....North Hilo  
J P Miao.....Hamakua  
J W Kumahoa.....Puna  
J H S Martin.....Kau  
Geo Timoteo.....East Kau  
J G Hoapili.....North Kona  
C W P Kaeo.....South Kona

**Governors.**

Governor of Oahu.....His Ex C P Iaukea  
Residence, Beretania street, Honolulu.  
Governor of Maui.....His Ex R H Baker  
Residence, Lahaina.  
Governor of Hawaii.....H H Ululani  
Residence, Hilo; F S Lyman, Clerk.  
Governor of Kauai.....H H Lanihau  
Residence, Koloa, Kauai.

**Military Department.**

Secretary of the War and of the Navy, His Ex  
Hon W M Gibson (ex-officio); Commander-in-  
Chief of the Forces, Lieut Gen J O Dominis;  
Adjutant of the Forces, Col the Hon C P Iau-  
kea; Quartermaster General, Capt Samuel  
Nowlein; Intelligence Officer, Major A B  
Payley; Secretary and Aide-de-Camp to the  
Commander-in-Chief, Major John D Holt, Jr.  
Clerk of the Department, J S Webb.

**Department of Foreign Affairs.**

Minister of Foreign Affairs, His Ex W M Gibson  
Secretary of Department.....J S Webb  
Clerk of Department.....Ed Stiles

**Foreign Representatives—Diplomatic.**

United States Minister Resident—His Ex G W  
Merrill; residence, Alakea street.  
England—Commissioner and Consul-General, Jas  
Hay Wodehouse; residence, Emma street.  
France—Consul and Commissioner, Monsieur  
Henri Feer; residence, Beretania street.  
Georges Boulicch, Chancellor French Legation.  
Portugal—Consul and Commissioner, Senor A de  
Souza Canavarro; residence, Beretania street.  
Japan—Diplomatic Agent and Consul-General,  
Taro Ando; residence, Nuuanu Valley. Secre-  
taries to the Consulate General, Viscount  
Torii, T Fujita, K Nakayama.

**Foreign Consuls, Etc.**

Italy.....F A Schaefer  
German Empire.....H F Glade, (acting)  
Sweden and Norway.....J F Hackfeld (acting)  
Peru.....A J Cartwright  
Netherlands. } .....J H Paty  
Belgium. } .....  
United States Consul General.....Jno H Putnam  
Spain, Vice-Consul } .....R W Laine  
Mexico. } .....  
Austro-Hungary.....H F Glade  
Russia, Vice-Consul.....J F Hackfeld (acting)  
British Vice-Consul.....T R Walker (acting)  
United States, Vice and Deputy Consul-General  
.....F P Hastings  
Denmark.....H R Macfarlane  
United States Cons'l Ag't, Hilo.....J A Beckwith  
U S Consular Agent, Kahului.....A F Hopke  
U S Consular Agent, Mahukona.....C L Wight

**HAWAIIAN DIPLOMATIC AND CONSULAR AGENTS.****Envoy Extraordinary and Minister Plenipotentiary.**

Washington, D C.....His Ex H A P Carter  
Secretary of Legation.....(vacant)  
Minister Resident.....  
Tokio, Japan.....His Ex R W Irwin

**Charge d'Affaires and Consuls-General.**

London, England.....A Hoffning  
Secretary of Legation, Sidney B F Hoffning  
Valparaiso, Chile.....D Thomas  
Lima, Peru.....R H Beddy  
Bremen, Germany.....(vacant)

Paris, France.....F Collin de Paradis  
Amsterdam.....D H Schmuil  
Barcelona, Spain.....R Monner Sans

**Consuls-General.**

London.....H R Armstrong  
New York, U S A.....E H Allen, Jr  
Sydney, N S W.....E O Smith  
Sweden and Norway.....H A Burger  
Copenhagen, Denmark.....Julius Holmbald  
Ottawa, Canada.....C E Anderson  
Hong Kong, China.....Jno Bell Irving  
Rome, Italy.....J C Hooker  
Antwerp, Belgium.....V Forge  
San Francisco, Cal.....D A McKinley

**Consuls, Etc.**

Portland, Or.....J McCracken  
Marseilles, France.....A Couve  
Havre, France.....L de Mandrot  
Bordeaux, France.....E de Boissac  
Genoa, Italy.....R de Luchi  
Boston, Mass.....Lawrence Bond  
Glasgow, Scotland.....J Dunn  
Dunedin, N Z.....H Driver  
Grand Duchy of Baden Baden.....M Muller  
Callao, Peru.....S Crosby  
Auckland, N Z.....D B Cruickshank  
Falmouth, England.....W S Broad  
Ramsgate, England.....(vacant)  
Monte Video, Uruguay.....Hughes Conrad  
Assumption, Paraguay.....Prof Alex Marengo  
Manzanillo, Mexico.....(vacant)  
Barcelona, Spain.....Jose M de Serria  
Cork, Ireland.....W D Seymour  
Belfast.....J A Ross  
Vienna, Austria.....V von Schonberger  
Edinburgh and Leith, Scotland.....E G Buchanan  
Rouen France.....C Schessler  
Melbourne, Victoria.....G N Oakley  
Hamburg, Germany.....E F Weber  
Bremen, Germany.....J F Muller  
Singapore.....R Brenner  
Fayal, Azores.....Antonio F de Serpa  
Nagasaki, Japan.....Vacant  
Colon.....H E Cooke  
Tasmania.....A Coote  
Hull, England.....W Moran  
Maderia.....J Hutchinson  
Victoria, B C.....R P Rithet  
Cardiff and Swansea.....H Golberg  
Newcastle, N S W.....A P Russ  
Ghent, Belgium.....Ernest Coppieters  
Dresden, Saxony.....A P Russ  
Hiogo and Osaka, Japan.....S Endicott  
Liverpool, England.....Harold Janion  
Shanghai, China.....J Johnstone Keswick  
St Michaels.....Richard Seemann  
Tahiti.....Jos T Cognet  
Bankok, Siam.....A Kurtzhals  
Christiania, Norwav.....L Samson  
Lisbon, Portugal.....Leon de A Cohen  
Dundee, Scotland.....J G Zoller  
Gibraltar.....Horacio Schott  
Newcastle on Tyne.....E Biesterfeld  
Frankfort on Maine.....Jos Kopp  
St John, N B.....Allan O Crookshank  
Bruges, Belgium.....E Vanden Brande  
Dordrecht.....Jan Dirk Vander Made  
Port Townsend, W T.....James G Swan  
Liege.....Max Goebel  
Brisbane, Queensland.....Alex B Webster  
Las Palmas, Canary Islands.....Luis F Suevedo  
Oporto.....N T M Ferro  
Montreal.....Dickson Anderson  
Halifax, N S.....George Fraser  
Guatemala.....Henry Tolke

Mexico.....William J de Gress  
Bristol, England.....Mark Whitwell  
Naples, Italy.....Lorenzo Colombo  
Valencia, Spain.....Vicente Chust

*Vice-Consuls.*

Dublin.....R Jas Murphy  
Toronto, Ontario.....Geo H Shaw  
Hamilton, Ontario.....Adam Brown  
Kingston, Ontario.....Geo Richardson  
Belleville, Ontario.....Alex Robertson  
Rochville, Ontario.....J D Buell  
Yarmouth, Nova Scotia.....Edwzid F Clements  
St Vincent, Cape de Verde Islands.....Clari-  
mundo Martins.  
Cadiz, Spain.....Alcon Luciano  
Aguilas.....R C Barberan  
Gott-nburg.....Gus Kraak  
Lysckil, Sweden.....H Bergstrom  
Jaluit.....Commercial Agent, Hermann Grosser  
Apia, Samoa.....B Greenebaum

**Interior Department.**

Minister of Interior.....His Ex L Aholo  
Chief Clerk of Department.....J A Hassinger

Clerks { W O Atwater,  
J H Boyd,  
G E Smithies,  
M K Keohokalole  
A S Mahaulu.

Registrar of Conveyances.....Junius Kaee  
Deputy Registrar.....Malcolm Brown  
Surveyor-General.....W D Alexander  
Assistant Surveyor.....C J Lyons  
Commissioner of Gov't Lands.....J F Brown  
Postmaster-General.....F Wundenberg  
Assistant Postmaster-General.....D Manaku  
Supt Public Wk's and Civil Eng'r, Julius H Smith  
Superintendent Water Works.....C B Wilson  
Clerk of Water Works.....J W Robertson  
Second Clerk.....W T Monsarrat  
Commissioner of Patents.....Jonathan Austin

**Post Office Department.**

F Wundenburg.....Postmaster-General  
D Manaku.....Assistant Postmaster-General  
A B Scrimgeour.....Book-keeper and Cashier  
Henry Poor.....Savings Bank Department  
N C Willong.....Money Order Department  
Miss A L Fillebrown.....Registry Department  
Assistants--O C Swain, W Johnson, G L Desha,  
D P Hoolapa, S P Aholo.

**List of Government Surveying Corps.**

W D Alexander.....Surveyor-General  
C J Lyons.....Assistant in charge of office  
J F Brown.....Commissioner of Government Lands  
J S Emerson } .....in charge of Parties  
F S Dodge }  
W A Wall.....Draughtsman and in office work

**Board of Immigration.**

His Ex L Aholo.....President  
Members--Their Exs W M Gibson, J M  
Kapena, Hon J L Kaulukou.  
A S Clegghorn.....Inspector-General Immigrants  
W O Atwater.....Secretary  
G O Aciyama.....Inspector of Japanese Immi-  
grants.  
S Kimura.....Sub-Inspector for, Japanese, Island  
of Hawaii.  
C Ito.....Sub-Inspector for Japanese, Island of  
Mani.  
Ernest Hutchison.....Inspector for Portuguese

**Board of Health.**

His Ex W M Gibson.....President  
Members--His Ex C T Gulick, Hon A S Cleg-  
ghorn.  
Secretary.....F H Hayselden  
Port Physician.....Dr Jno Brodie  
Agent.....J H Brown

**Board of Education.**

President.....W M Gibson  
Members.....Hons J M Kapena, J S Walker,  
J L Kaulukou.  
Inspector General of Schools.....  
Secretary.....W J Smith

**School Agents in Commission.****HAWAII.**

Hilo and Puna.....L L Severance  
Kau.....G W C Jones  
North and South Kona.....H N Greenwell  
South Kohala.....Miss E M Lyons, acting  
North Kohala.....Rev H F E Whalley, acting  
Hamakua.....R A Lyman

**MAUI.**

Lahaina and Lanai.....H Turton  
Wailuku.....A Barnes  
Hana.....S W Kaai  
Makawao.....W F Mossman  
Molokai.....R W Meyer

**OAHU.**

Honolulu.....W J Smith  
Ewa and Waianae.....W J Smith  
Wailua.....J F Anderson  
Koolauloa.....W C Lane  
Koolaupoko.....W J Smith, acting

**KAUAI.**

Waimea and Niihau.....V Knudsen  
Koloa, Lihue, Koolau, Hanalei.....Rev J W Smith

**Commissioners of Private Ways and Water Rights.****HAWAII.**

Hilo.....C E Richardson, Kami, J Nawahi  
Hamakua.....R A Lyman,  
J K Kaunamano, J R Mills.  
North and South Kohala.....Joseph Smith,  
S C Luhiau, Z Kalai.  
Kau.....C N Spencer, J Kauhane, J H S Martin

**MAUI.**

Lahaina.....M Makalua, D Taylor, A Makekau  
Wailuku.....P Kaluna, E Bal, J Richardson  
Makawao.....J Keohokaua, Kekaha  
Hana.....O Unna, C K Kakani, S W Kaai  
Kaanapali.....J A Kaukau, J F Kauila,  
D H Kaliaiili.  
Molokai.....J Nakaleka, D Kailua, J W M Poohoa

**OAHU.**

Kona.....D Kahanu, J F Brown, A C Smith  
Koolaupoko.....Kane, G Barenaba, M Rose  
Koolauloa.....W C Lane, Naili, J Kaluhi  
Wailua.....J F Anderson, S N Emerson,  
N Kaiaikawaha.  
Ewa and Waianae.....J W Haaheo, Opuni  
A Kahi.

**KAUAI.**

Puna.....W E H Deverill, D Kealahula,  
A W Maiho.  
Waimea.....V Knudsen, E Kahale, P R Holi  
Hanalei.....S Uza, E Kaaloa, D Niuloihi

**Commissioners of Crown Lands.**

W M Gibson, J M Kapena, C P Iaukea, Agent

**Commissioners of Boundaries.**

Hawaii..... F S Lyman  
 Maui, Molokai and Lanai..... L Aholo  
 Oahu..... R F Bickerton  
 Kauai..... J Hardy

**Commissioners of Fences.****HAWAII.**

Hilo..... C E Richardson, B Brown, S L Austin,  
 R A Lyman, D Porter,  
 Hamakua..... J R Mills, J K Kaunamano  
 North and South Kona..... I Sherwood, M Barrett,  
 H Cooper, J W Smith, G F Carsley.  
 North Kohala..... — Kamahu  
 South Kohala..... J Parker, S H Mahuka  
 Kau..... W T Martin, C N Spencer, S Ka-  
 waa, D W Kaaemoku.

**MAUI.**

Lahaina..... J C Kirkwood, K Nahaolelua,  
 E S Kaiue.  
 Makawao..... C H Dickey, P Nui  
 Hana..... C K Kakani, M Pupuhu, D Puhi  
 Molokai..... R W Meyer, S Paulo, R Newton

**OAHU.**

Kona..... J F Brown, D Kahanu, A C Smith  
 Ewa and Waianae..... Kaikanahaole  
 S Previere, S Gandall.  
 Waialua..... H Warden, J Amara, J F  
 Anderson.

Koolauloa..... Kaluhi, Kaili, W C Lane  
 Koolaupoko..... W E Pii, Harenaba, C H Judd

**KAUAI.**

Kawaihau..... J M Kealoha, J P Kaumu-  
 alii, Kapulehua.  
 Molokaa and Lihue..... W H Rice, S  
 Kaieo, Pahuwai.

**Appraisers of Land Subject to Government Commutation.**

Hawaii..... R A Lyman, J H Nawahi  
 Maui, Molokai and Lanai..... T W Everett,  
 L Aholo, D Kahualelio.  
 Oahu..... J F Brown, C Brown, R F Bickerton  
 Kauai..... J Hardy, P P Kanoa, J H Wana

**Road Supervisors.****Road Supervisors in Chief:**

Hawaii..... C N Arnold  
 Maui, Lanai and Molokai..... G E Richardson  
 Oahu, Kona, C W Hart; all except Kona, T  
 A Lloyd.  
 Kauai..... G B Palohau.

**Agents to Grant Marriage Licences.****Hawaii—**

Hilo..... L Kaapa,  
 D H Hitchcock, L Severance, S W Pa, D  
 Kamai, S L Kawelo.  
 Hamakua..... Kukuhikahi,  
 W A Mio, J K Kaunamano.  
 South Kohala..... Jas Bright, D Manuia,  
 S H Mahuka.  
 North Kohala..... J Nalii, D S Kahookano.  
 North Kona..... Kapukui,  
 S H P Kalawaiapuna, J Kaelamakule.  
 South Kona..... S W Papaula,  
 J W Kaapu, J Kaao, S W Kino.  
 Puna..... Haleluhi,  
 W S Kaikuihine, D Kapahee.

**Maui—**

Wailuku..... Kahele  
 J Haole, J Smyth.  
 Lahaina..... L Aholo,  
 R Newton.  
 Makawao..... H P Baldwin,  
 W F Mossman, J Kalama.  
 Hana..... Kamaka,  
 P Momoa, S W Kaai, D W Napihao.  
 Kaanapali..... Nahaku,  
 S M Sylva.

**Molokai—**

Kaumoana..... S Kupehea,  
 S Paulo, D Kalua, R W Meyer, A Hutchin-  
 son.

**Lanai—**

Kealakai

**Oahu—**

Kona..... W O Atwater, J W  
 Smith, C T Gulick, J S Smithies, J H  
 Boyd.  
 Koolaupoko..... M Kaanuu, W H Pii, E P  
 Aikue.  
 Koolauloa..... J Kekuku, J L Naili.  
 Ewa and Waianae..... D Malo,  
 Kahaulono, Keauiole, J P Kama.  
 Waialua..... W C Lane, J F Anderson

**Kauai—**

Waimea..... J Kauai,  
 E K Kauai, S E Kaula, E L Kauai.  
 Koolau..... D Nuuhiwa  
 Hanalei..... A Wilcox, J Kaina  
 Lihue..... P Puhuala,  
 J Kala, Koloa, A W Maiho.  
 Kawaihau..... G B Palohau  
 Niihau..... George S Gay

**Agents to Take Acknowledgments to Instruments.**

Hawaii—D H Hitchcock, F S Lyman, C F  
 Hart, W C Borden, Hilo District; J W Smith, C  
 N Spencer, J Kauhane, F Spencer, J Nawahi, S  
 W Pa, G W Pilipo, R A Lyman, J K Kauna-  
 mano, Kahookano, J R Mills, G Bell, C  
 Meinecke, Kapahu, J Kauwila, Molale, D Alawa,  
 S L Austin, J K Kaulia, J W Moanauli, J K Na-  
 hale, S L Kawelo, D H Nahinu.

Maui—H Dickenson, T W Everett, J Ka-  
 waiaia, J Gardner, P N Makee, A Fornander,  
 D Puhi, J Richardson, R Newton, J W Kalua  
 S P Halama, J Grunwald, S F Chillingworth,  
 D M Kalama, W F Mossman, S W Kaai, J Ka-  
 lama.

Molokai—R W Meyer, S K Kupihea, A  
 Hutchinson.

Oahu—W C Lane, C N Kalama, M Kaanau, S  
 N Emerson, G Barenaba, C Brown, A Ku, A K  
 Hapai, H Kauahilo, Malcolm Brown, W A  
 Whiting, A Kauhii, A C Smith, Col J Austin.

Kauai—F Bindt, S W Wilcox, C Bertleman,  
 T T Kalaeone, E L Kauai, J Hardy, J M Kealoha,  
 J C Long, G B Palohau, L H Stolz.  
 Niihau—E Kahele.

**Inspectors of Animals.**

Oahu—Dr J Brodie, V. S., Capt A B Hayley,  
 J H Brown.

Hawaii—C N Arnold, J W Colville, C E Rich-  
 ardsen.

Maui—Dr A H Bayley, S F Chillingworth,  
 W P A Brewer.

Notaries Public.

Hawaii—Hilo.....D H Hitchcock  
Kohala.....H P Wood  
Maui—Haiku—C H Dickey.  
Makawao—W H Halstead, J Richardson.  
For Maui, Molokai and Lanai.....W F Mossman.  
Oahu—Honolulu.....J H Paty, T Brown, C T Gulick, C Brown, W R Castle, S B Dole, J M Monsarrat, H A Widemann, A Rosa.  
Kauai—Waimea.....V Knudsen

Agents to Acknowledge Contracts for Labor.

Oahu—Honolulu.....C T Gulick, J U Kawaiui, J A Hassinger, W Auld, J W Robertson, William Wond, W H Tell, F H Hayselden.  
Waialua.....C H Kalama, S N Emerson, H N Kahulu, J H Barenaba, S K Mahoe.  
Koolauloa.....M Kaanuu.  
Koolupoko.....A Ku, G Barenaba, E P Edwards  
Ewa and Waianae.....J K Kaanaana, J D Holt  
Hawaii—Hilo.....L Severance, J H Pahio, S L Kawelo, S W Pa, H K Unea, K M Keahou, J K Kaulia, Jr.  
Kona.....K Kamaouha, J W Smith  
Hamakua.....J K Kaunamano, G W Wilfong, A W Haalilio, Walter Joy.  
North Kohala.....H Rickard, John Maguire, H P Woods, D S Kahookano, J Moanauli, W J Brodie, L S Thompson, G P Kamaouha.  
South Kohala.....Jas Bright, G Bell, J Jones  
Kau.....J Kauhane, J N Kapahu, W Kaecamoku.  
Puna.....J N Kamoku  
Maui—Lahaina.....S K Kalaikini, K Nahaolelua.  
Wailuku.....J W Kalua, S P Halama, W H Makakoa, J Richardson, W S Maule.  
Makawao.....G Glendon, Jas Smyth, G W Beckwith.  
Hana.....Kahele opio, F Wittrock, H Meheula, J H Daniels, J Murdock, P Kaumakaole.  
Molokai and Lanai.....J W M Poohea, G Kekipi, S K Piapoo.  
Kauai, Koloa.....J N Gilman, J W Alapai, W H Deverill.  
Lihue.....A Spencer, J B Hanaike.  
Hanalei.....J Kakina, J Kukuia, J W Loka, J H Mahoe.  
Waimea.....M Kamalenai, J H Kapukui  
Kawaihau.....T Kalaeone, J M Kealoha  
Niihau.....Kaomea

Department of Finance.

Minister of Finance.....P P Kanoa  
Registrar of Public Accounts.....F S Pratt  
Auditor General.....J S Walker  
Collector General of Customs.....J M Kapena  
Clerk of Registrar.....John Ritson  
Collector Port of Hilo.....L Severance  
Collector Port of Kahului.....W F Mossman  
Collector Port of Lahaina (ex-officio) T W Everett  
Collector Port of Mahukona.....J P Sisson  
Collector Port of Kealakukua.....H N Greenwell  
Collector Port of Kawaihau.....J Stuppelbeen  
Collector Port of Koloa.....E Strehz  
Port Surveyor, Kahului.....W J Sheldon  
Port Surveyor, Hilo.....C A Akau

Customs Department.

Collector.....J M Kapena  
Deputy Collector.....G E Boardman  
1st Statistical Clerk.....W Chamberlain

2nd Statistical Clerk.....R N Mossman  
3rd Statistical Clerk.....G W Nawaakoa  
1st Entry Clerk.....H W Auld  
2nd Entry Clerk.....O Stillman  
Store Keeper.....J Q Tewksbury  
Assistant Store Keeper.....G W Miles  
Harbor Master of Honolulu.....Capt A Fuller  
Pilots in Honolulu.....{ Capts A McIntyre  
W Babcock  
P P Shepherd  
Port Surveyor.....{ John Markham  
Crowder  
Guards.....{ G Parminter  
B Whitely

Department of Attorney-General.

Attorney General.....His Ex A Rosa  
Clerk to Attorney General.....J L Kaulukou  
Marshal of the Hawaiian Islands.....J L Kaulukou  
Deputy Marshal.....C L Hopkins  
Clerk to Marshal.....J Kua  
Second Clerk.....F Pahia  
Sheriff of Hawaii.....T W Everett  
Sheriff of Maui.....S W Wilcox  
Sheriff of Kauai.....A N Tripp  
Jailer of Oahu Prison.....A N Tripp

Oahu—Deputy Sheriffs, Ewa, L K Halualani; Waianae, S K Hui; Waialua, J Amara; Koolauloa, H Kauaihilo; Koolaupoko, Robert Makahaula.

Kauai—Sheriff, S W Wilcox; Deputy Sheriff for the island, Ashford Spencer; Deputy Sheriffs, Lihue, S Kaiu; Koloa, J W Alapai; Waimea, S Aukai; Hanalei, J Kakina; Kawaihau, G B Palohau.

Molokai—Deputy Sheriffs, Pukoo, E Lililehua. Maui—Sheriff, T W Everett; Deputy Sheriffs, Lahaina, H Turton; Wailuku, H G Treadway; Makawao, T E Evens; Honouaia, J Kapohakimohewa; Hana, M H Reuter.

Hawaii—Sheriff, F Pahia; Deputy Sheriffs, J K Kaulia; North Hilo, S L Kawelo; Hamakua, W P Lumaheihai; South Kohala, Jas Bright; North Kohala, Chas H Pulaa; W Moanauli; North Kona, D Makainai; South Kona, D H Nahiia; Kau, Edward Smith; Puna, J M Kaula.

Chamber of Commerce.

President.....A J Cartwright  
Vice-President.....F A Schaefer  
Secretary and Treasurer.....J B Atherton

Life, Fire and Marine Insurance Agencies.

Firemen's Fund.....Bishop & Co  
Liverpool & London & Globe.....Bishop & Co  
New York Life.....C O Berger  
South British & National, F & M.....C O Berger  
Hartford, Fire.....C O Berger  
Commercial, Fire & Marine.....C O Berger  
Equitable Life.....A J Cartwright  
Commercial Union Assurance, London.....A J Cartwright  
Imperial Fire.....A J Cartwright  
Aetna, Fire.....Castle & Cooke  
New England Mutual Life.....Castle & Cooke  
Union, F & M, San Francisco.....Castle & Cooke  
British and Foreign Marine.....T H Davies  
Northern Fire and Life.....T H Davies  
Rheinish Westphalian Lloyd.....J C Glade  
Aachen and Leipsic.....J C Glade  
North German Fire.....H Hackfeld & Co

Trans-Atlantic Fire.....	H Hackfeld & Co
Nor Br & Merc'l Fire.....	E Hoffschlaeger & Co
Northwestern Mutual Life.....	W G Irwin & Co
Swiss Lloyd Marine.....	G W Irwin & Co
Union Fire of New Zealand.....	W G Irwin & Co
Great Western Marine.....	W G Irwin & Co
Royal, of Liverpool.....	W G Irwin & Co
Hamburg-Magdeburg Fire.....	A Jaeger
Lion, Fire, of London.....	A Jaeger
Washington Fire, of Boston.....	A Jaeger
Orient Fire, of Hartford.....	A Jaeger
Pacific Mutual Life.....	R W Laine
State Investment F & M of Cal.....	R W Laine
Manhattan Life.....	J H Paty
Hamburg-Bremen Fire.....	F A Schaefer & Co
German Lloyd Marine.....	F A Schaefer & Co
Fortuna Marine.....	F A Schaefer & Co
Dresden General Insurance.....	F A Schaefer & Co
Sun Fire Office, London.....	G W Macfarlane & Co
Mutual Life of New York.....	Wilder & Co
London & Prov., Fire.....	J T Waterhouse

#### Board of Underwriters—Agencies.

Boston.....	C Brewer & Co
Philadelphia.....	C Brewer & Co
New York.....	A J Cartwright
Liverpool.....	T H Davies & Co
Lloyds, London.....	T H Davies & Co
San Francisco.....	H Hackfeld & Co
Bremen, Dresden, Vienna.....	F A Schaefer

#### Packet Agencies.

Boston Packets.....	C Brewer & Co
Planters' Line, San Francisco.....	C Brewer & Co
Pioneer, Liverpool.....	T H Davies & Co
Merchants' Line, San Francisco.....	Castle & Cooke
New York Line.....	Castle & Cooke
Oceanic S S Co's Line.....	W G Irwin & Co
Liverpool.....	G W Macfarlane & Co
Glasgow.....	G W Macfarlane & Co
Pacific Mail S S Company.....	H Hackfeld & Co
Bremen Packets.....	H Hackfeld & Co
Hawaiian Packet Line.....	H Hackfeld & Co
Glasgow and Honolulu.....	F A Schaefer & Co

#### Honolulu Fire Department.

Organized 1851. Annual Election of Engineers  
 First Monday in June. Officers for 1886-87:  
 Chief Engineer.....C B Wilson  
 First Assistant Engineer.....Julius Asch  
 Second Assistant Engineer.....Frank Hustace  
 Secretary and Treasurer.....Henry Smith  
 Fire Marshal.....J W McGuire  
 Survey Engineer.....J C White  
 Annual Parade Day of Department.....Feb 3d  
 Honolulu Engine Company No 1 (steam) formed  
 1850, organized July 18, 1855. Annual election  
 of officers, first Wednesday in July.  
 Mechanic Engine Company No 2, (steam) organized  
 December, 1850, admitted February 3,  
 1850. Annual election of officers, first Wednesday  
 in February.  
 Hawaii Engine Co No 4, (steam) organized  
 February, 1861. Annual election of officers, first  
 Tuesday in February.  
 China Engine Company No 5 (steam), organized  
 February, 1879.  
 Pacific Hose Company No 1, organized January,  
 1861, as Engine Company No 3, changed to a  
 Hose Company December 14, 1863. Annual  
 election of officers, second Tuesday in January.  
 Protection Hook and Ladder Company No 1,  
 re-organized September, 1857. Annual election  
 of officers, first Monday in September.

#### Fire Wards of Honolulu.

- No. 1—Bounded by School, Likelike, Judd and Punchbowl streets.
- No. 2—Bounded by Beretania, Liliha, School and Fort streets.
- No. 3—Bounded by King, Beretania and Fort streets.
- No. 4—Bounded by Water Front, King and Fort streets.
- No. 5—Bounded by Water Front, Fort, King and Richard streets.
- No. 6—Bounded by King, Fort, Beretania and Richard streets.
- No. 7—Bounded by Beretania, Fort, School and Punchbowl streets.
- No. 8—Bounded by Water Front, Richards, Beretania and Punchbowl streets.
- No. 9—Bounded by Water Front, Punchbowl and Victoria streets.
- No. 10—Bounded by King, Victoria and Piikoi streets.
- No. 11—Bounded by Piikoi, Wilder avenue and Punahou streets.
- No. 12—Beyon' Punahou street.
- No. 13—The Harbor.

#### Volunteer Military Companies.

Prince's Own.....	H Kaaha, Capt
Leleiohoku Guard—Cavalry.....	Makanui, Capt
Mamalahoa.....	Elama, Capt
King's Own.....	C H Clark, Capt
Honolulu Rifles.....	V V Ashford, Capt
Queen's Own.....	A S Mahaulu, Capt

#### Anniversaries.

New Years Day.....	January 1
Accession of Kalakaua.....	February
Birthday of Kamehameha III.....	March 17
Birthday of the Queen of Great Britain.....	May 24
Decoration Day.....	May 30
In Memory of Kamehameha I.....	June 11
American Independence.....	July 4
Birth of His Majesty the King.....	November 16
Recognition of Hawaiian Independence.....	Nov 28
Christmas.....	December 25
Birthday of Queen Kapiolani.....	December 31

#### Queen's Hospital.

ERECTED IN 1860.

President.....	HIS MAJESTY THE KING
Vice-President.....	C R Bishop
Sec'y.....	F A Schaefer   Treas..... J H Paty
Auditor.....	W L Green
Physicians.....	R McKibbin, Jas Brodie
Executive Committee—	C R Bishop, J H Paty, F A Schaefer, A J Cartwright, A S Cleghorn.

#### American Relief Fund.

Organized 1864. Meets annually February 22	
President.....	A J Cartwright
Vice-President.....	
Secretary and Treasurer.....	C R Bishop
Ex Com.....	A W Pierce, G W Houghtailing, Sr

#### British Benevolent Society.

Organized 1860. Meets annually April 23.	
President.....	J H Wodehouse
Vice-President.....	Rev A Mackintosh
Sec'y.....	J A Kennedy   Treas..... A S Cleghorn
Relief Committee.....	R F Bickerton, H
Waterhouse, W Roe, G Lucas, A Young.	

**British Club.**

Organized 1852. Premises on Union Street, two doors below Beretania.

President.....A S Cleghorn  
Sec'y.....G Brown | Treas.....A Jaeger  
Managers—A S Cleghorn, Godfrey Brown, H Macfarlane.

**Mechanics' Benefit Union.**

Organized 1856.

Pres.....T R Lucas | Vice-P.....J F Eckart  
Sec'y.....Wm Auld | Treas.....J F Colburn  
Ex Com.....M Colburn, Chairman

**German Benevolent Society.**

Organized August 22, 1856.

President.....F A Schaefer  
Secretary.....John F Eckart  
Treasurer.....H Lose

**Mission Children's Society.**

Organized 1851. Annual Meeting in June.

President.....W C Merritt  
Vice-President.....H Waterhouse  
Recording Secretary.....W J Forbes  
Cor Secretary.....Mrs L B Coan  
Home Cor Secretary.....Miss H Hillebrand  
Elective Members.....Mrs S E Bishop, A F Cooke,  
Treasurer.....E O White

**Sailors' Home Society.**

Organized 1853. Meets annually in December.

President.....C R Bishop  
Sec'y.....F A Schaefer | Treas.....J H Paty  
Ex Com.....S M Damon, Rev E C Oggel, J B Atherton.

**Board of Hawaiian Evangelical Association.**

Originally organized 1823.

Constitution revised 1863. Annual meeting June  
President.....Hon A F Judd  
Vice-President.....H Waterhouse  
Corresponding Secretary.....Rev A O Forbes  
Recording Secretary.....Rev C M Hyde, D D  
Treasurer.....W W Hall | Auditor.....P C Jones

**Woman's Board of Missions.**

Organized 1871.

President.....Mrs H Bingham  
Recording Secretary.....Mrs S E Bishop  
Home Cor Sec'y.....Miss E B Knight  
Foreign Cor Sec'y.....Mrs L McCully  
Treasurer.....Mrs R F Dillingham  
Auditor.....W W Hall

**Missionary Gleaners—Branch of Woman's Board.**

President.....Mrs P C Jones  
Vice-President.....Miss J Parke  
Rec Secretary.....Miss N Lowrie  
Cor Secretary.....Mrs E C Damon  
Treasurer.....Miss H Needham  
Directress.....Miss H Hillebrand  
Asst Directress.....Miss M Walker

**Women's Christian Temperance Union.**

Organized Dec, 1884.

President.....Mrs J M Whitney  
Vice-Presidents.....{ Mrs E C Oggel  
                                      Mrs J A Cruzan  
                                      Mrs E W Jordan  
Recording Secretary.....Mrs Jay Greene  
Corresponding Secretary.....Mrs W E Merritt  
Treasurer.....Mrs L B Coan

**Young Men's Christian Association.**

Organized 1869. Annual meeting in April.

President.....W A Bowen  
Vice-President.....T Mav  
Sec'y.....R W Podmore | Treas.....T S Southwick  
General Secretary.....S D Fuller

**Ladies' Benevolent Society of Fort Street Church.**

Organized 1853. Meets Annually in April.

President.....Mrs W F Allen  
Vice-President.....Mrs J A Cruzan  
Sec'y.....Mrs W W Hall | Treas.....Mrs P C Jones

**Stranger's Friend Society.**

Organized 1852. Annual Meeting in June.

President.....Mrs J M Damon  
Vice-Presidents.....{ Mrs J S McGrew  
                                      Mrs A Mackintosh  
Sec. Mrs H M Whitney | Treas.....Mrs S E Bishop  
Mrs S H Dowsett.....Directress

**Portuguese Ladies' Benevolent Society.**

Organized December, 1886.

President.....Mrs M Canavaro  
Vice-President.....Mrs E S Cunha  
Sec.....Miss E L Gilliland | Treas.....Mrs M A Gonsalves.

**Lusitana Benevolent Society.**

Organized January, 1882.

President.....A J F Russo  
Secretary.....J F S Ramo  
Treasurer.....M A Gonsalves

**San Antonio Benevolent Society.**

Organized December, 1876.

President.....Joao Gaspar  
Sec'y.....M S Silva | Treas.....Cesar L Brito

**Library and Reading Room Association.**

Organized March, Incorporated June 24, 1879.

President.....A J Cartwright  
Vice-President.....M M Scott  
Sec'y.....H A Parmelee | Treas.....A L Smith  
Directors—Dr C T Rodgers, S B Dole, Walter Hill, H Waterhouse, Dr C M Hyde, W R Castle, W O Atwater, H C Myer, J F Brown.

**Ka Lima Kokua.**

Organized 1879.

President.....Mrs C M Hyde  
Vice-President.....Miss H M Bliss  
Secretary.....Miss M Paikuli  
Treasurer.....Mrs A F Cooke

**Oahu College.**

Located at Punahou, two miles east of Honolulu.

President.....Rev W C Merritt  
Mental and Moral Science.

Prof Chem and Nat Sci.....L L Van Slyke, Ph D  
Greek, Pol Econ and Math.....W F Frear, A B  
Latin, His and Eng Lit.....Miss M E Spooner  
Instrumental and Vocal Music.....Mrs J E Hanford  
French, His and Elocu.....C M Severance, A B

**Punahou Preparatory.**

Principal.....Miss E V Hall  
Teachers.....Miss A Mooar, Miss E B Snow,  
Miss M V Stuart.

**Hawaiian Rowing & Yachting Association.**

Annual Election, first Monday in August.

President.....	His Majesty
Vice-Presidents.....	{ C P Paukea
Secretary.....	{ C B Wilson
Treasurer.....	W M Giffard
	J G Spencer

**Honolulu Yacht and Boat Club.**

Annual election in January.

Commodore.....	R F Bickerton
Vice-Commodore.....	J Hay Wodehouse, Jr
Sec'y and Treas.....	J H Fisher
Measurer.....	Thos C Sorrenson
Executive Committee.....	J M Dowsett, C B Wilson.
	J G Spencer, Mark Robinson, W G Armstrong.

**Myrtle Rowing Club.**

Semi-Annual Elections Second Fridays in January and July.

President.....	W C King
Vice-President.....	W T Monsarrat
Secretary.....	A M Brown
Treasurer.....	C T Wilder
Captain.....	J L Torbert
Trustees—	Alex Robertson, A W Carter, W C Wilder.

**Honolulu Base Ball League.**

Annual Election in March.

President.....	W F Allen
Secretary and Treasurer.....	J G Spencer
Scorer.....	

**Honolulu Rifle Association.**

Organised December, 1885.

President.....	J Brodie, M D
Vice-President.....	C H Nicoll
Sec'y and Treas.....	J H Fisher

**Lodges.**

**LODGE LE PROGRES DE L'OCEANIE, No 124, A F & A M;** meets on King St., on the last Monday in each month.

**HAWAIIAN, No 21, F & A M;** meets in its hall corner Queen and Fort Streets, on the first Monday in each month.

**HONOLULU CHAPTER, No 1, R A M;** meets in the hall of Le Progres de l'Oceanie on the third Thursday of each month.

**HONOLULU COMMANDERY No 1 KNIGHTS TEMPLAR** meets at the Lodge Room of Le Progres de l'Oceanie second Thursday of each month.

**KAMEHAMEHA LODGE OF PERFECTION, No 1, A & S R;** meets in the hall of Le Progres de l'Oceanie on the fourth Thursday of each month.

**NUUANU CHAPTER OF ROSE CROIX, No 1, A & S R;** meets at the hall of Le Progres de l'Oceanie, first Thursday in the month.

**ALEXANDER LIHOLIHO COUNCIL No 1, OF KADOSH;** meets on the third Monday of alternate months from February.

**EXCELSIOR LODGE, No 1, I O of O F;** meets at the hall in Odd Fellows' Building, on Fort Street, every Tuesday evening.

**HARMONY LODGE, No 2, I O of O F;** meets each Monday evening in Harmony Hall.

**POLYNESIA ENCAMPMENT, No 1, I O of O** meets at Harmony Hall, King street, first and third Fridays of each month.

**OAHU LODGE No 1, K of P;** meets every Wednesday at hall on Fort Street.

**MYSTIC LODGE, No 2, K of P;** meets every Tuesday evening, at Harmony Hall.

**SECTION No 225—ENDOWMENT RANK, K of P** meets on the second Saturday of January, and December in the hall of Oahu Lodge.

**HAWAIIAN COUNCIL No 689, AMERICAN GIGION OF HONOR;** meets on second and fourth Friday evenings of each month in Harmony hall.

**OCEANIC COUNCIL, No 777, AMERICAN LEAGION OF HONOR;** meets on the first and third Mondays of each month, at the K of P hall.

**HAWAIIAN TRIBE, No 1, IMP. O R M;** meets at the hall of Oahu Lodge, K of P, every Tuesday evening.

**COURT LUNALILO, No 6600; A O of FOREST** meets at hall of Oahu Lodge, K of P, on second and fourth Tuesdays of each month.

**GEO. W DE LONG POST, No 45, G A R;** meets the second Tuesday of each month at Harmony hall.

**Places of Worship.**

**BETHEL UNION CHURCH (Congregational)** corner of Beretania and Richards streets, Rev J Oggel, Pastor.—Temporarily occupying Lyceum, corner of Nuuanu and Kukui streets. Services every Sunday at 11 A M. and 7:30 P M. Sunday School meets at 9:45 A M. Prayer Meeting Wednesday evenings at 7:30.

**FORT STREET CHURCH (Congregational)** corner of Fort and Beretania streets, Rev J A Croft, Pastor. Services every Sunday at 11 A M. and 7:30 P M. Sunday School meets one hour before morning service. Prayer Meeting Wednesday evenings at 7:30.

**ROMAN CATHOLIC CHURCH, Fort Street, Beretania;** Rt Rev Hermann, Bishop of Honolulu, Revs Rejis and Clement, assisting. Services every Sunday at 5 and 10 A M. and at 4:30 P M. Low Mass every day at 6 and 7 A M. Mass Sundays and Saints' days at 10 A M.

**ST. ANDREW'S CATHEDRAL, Emma Square;** Rt Rev Bishop Willis, Rev A McIntosh and Rev H H Gowen. Services on Sunday Holy Communion at 6:30 A M. Morning Prayer with Sermon at 9:30 A M. Holy Service 3:30 P M. Evensong with address 6:30 P M. Holy Communion at 9:30 A M., the last Sunday in each month. Sunday School 11 A M. Morning Prayer at 7 A M.

**Second Congregation, Rev George Wallace, Rector.** Services on Sunday as follows: Morning prayer with sermon 11:15 A M; Evening prayer with sermon 7:30 P M. Holy Communion first Sunday in month 11:15 A M. Sunday School 10 A M. Evening prayer with address every Wednesday at 7:30 P M.

January.	38	3	87	61	7	46	1771	11,000	54	January...
February.	1,000	3,800	604	746	252	14,331	940	312	February...	
March.	279	380	50	468	280	16,731	703	228	March	
April.	571	228	528	1828	743	12,843	16,600	318	April...	
May.	11,800	223	117,000	4,000	2,61	10,18	2,610	343	May	



January.....	3.87	.61	5.8	1.71	11.30	16.00	.54	.84	January.....	.03	.47	.02	2.34	.74	.53	2.73	1.75	7.7
February.....	1.00	3.80	1.64	7.46	1.52	14.33	9.40	.80	3.12	1.13	1.99	4.28	5.56	1.39	6.99	5.23	2.93	2.18
March.....	2.79	3.80	5.10	4.68	2.20	16.73	7.03	2.28	4.38	1.94	2.02	1.69	7.74	1.40	20.93	9.80	3.45	7.80
April.....	5.71	2.08	5.28	18.28	7.43	12.18	16.60	3.18	5.17	.94	2.50	8.60	5.60	.67	17.10	10.59	2.57	1.00
May.....	11.29	2.80	11.99	14.90	2.61	10.18	23.80	3.43	4.54	1.54	2.27	7.42	10.36	1.82	16.32	14.01	4.33	5.40
June.....	2.40	2.84	6.77	2.96	1.12	7.89	5.42	4.66	5.92	.66	1.70	4.49	7.22	1.53	9.67	6.00	1.80	.91
July.....	5.20	5.85	11.02	14.12	4.31	11.32	12.41	7.48	7.78	1.19	2.31	4.50	2.76	.68	10.10	3.75	3.17	1.69
August.....	2.01	2.49	5.28	4.62	.71	10.23	6.46	7.44	5.72	1.71	2.21	5.01	2.10	.18	8.51	3.69	3.55	1.24
September.....	2.11	2.82	6.22	7.80	1.27	13.41	9.16	3.16	3.10	2.91	3.31	7.43	.80	1.05	17.02	7.01	5.59	8.07
October.....	.41	.58	1.99	1.74	.02	8.29	8.85	4.06	2.78	1.74				.61		1.69		2.75
November.....	3.50	3.69	5.49	15.38	3.73	15.08	13.38	3.68	3.96									
December.....	2.52	3.90	7.24	23.24	3.91	13.70	20.96	3.78	2.00									
Totals.....	39.32	39.51	69.57	120.98	30.53	145.29	145	41	45.40	49.21								

\*This record from January to May inclusive is the monthly average for 10 years for this locality. Mr. Jones' record beginning with June.  
†The monthly record up to August having been lost the average for 6 years are given in their place.

# METEOROLOGICAL SUMMARY FOR HONOLULU, JULY 1, 1885, TO JULY 1, 1886.

By C. J. LYONS, of the Government Survey.

BAROMETER.—Reduced to Sea Level.				THERMOMETER.				WIND.				RAIN-FALL.	
MONTH.	I.O.P. M.	4 P. M.	9 P. M.	AVE.	6	2	9	AVE.	DAYS N. to E.	DAYS E. to S.	DAYS S. to W.	DAYS W. to N.	FALL.
July.....	30.050	29.983	30.040	30.016	73.28	83.67	78.16	78.370	25	1	5	0	5.05
August.....	30.026	29.962	30.012	30.094	74.19	85.39	79.32	79.633	24	5	2	0	2.36
September.....	30.083	30.009	30.069	30.046	74.46	83.66	75.32	75.816	30	0	0	0	2.25
October.....	30.085	30.009	30.083	30.047	70.64	83.55	73.22	75.803	23	4	1	0	0.72
November.....	30.159	30.075	30.151	30.117	71.93	79.17	73.93	75.010	26	2	1	1	4.00
December.....	30.127	30.051	30.121	30.089	62.22	73.90	68.35	68.156	17	3	3	8	4.35
January.....	30.034	29.945	30.023	30.089	66.77	78.96	67.42	71.050	6	5	17	3	0.99
February.....	30.080	30.011	30.063	30.045	66.18	78.50	70.11	71.596	18	3	6	1	1.32
March.....	30.137	30.066	30.136	30.101	68.24	78.26	69.74	72.080	17	6	8	0	1.97
April.....	30.160	30.092	30.152	30.126	68.50	79.47	71.63	73.200	23	6	1	0	1.47
May.....	30.181	30.115	30.173	30.148	69.77	79.10	72.21	73.693	30	1	0	0	3.51
June.....	30.180	30.112	30.161	30.146	72.43	81.33	73.97	75.910	31	0	0	0	1.44
Averages.....	30.101	30.035	30.098	30.072	69.885	80.412	72.800	76.251					
Totals.....									270	36	44	16	29.43

40



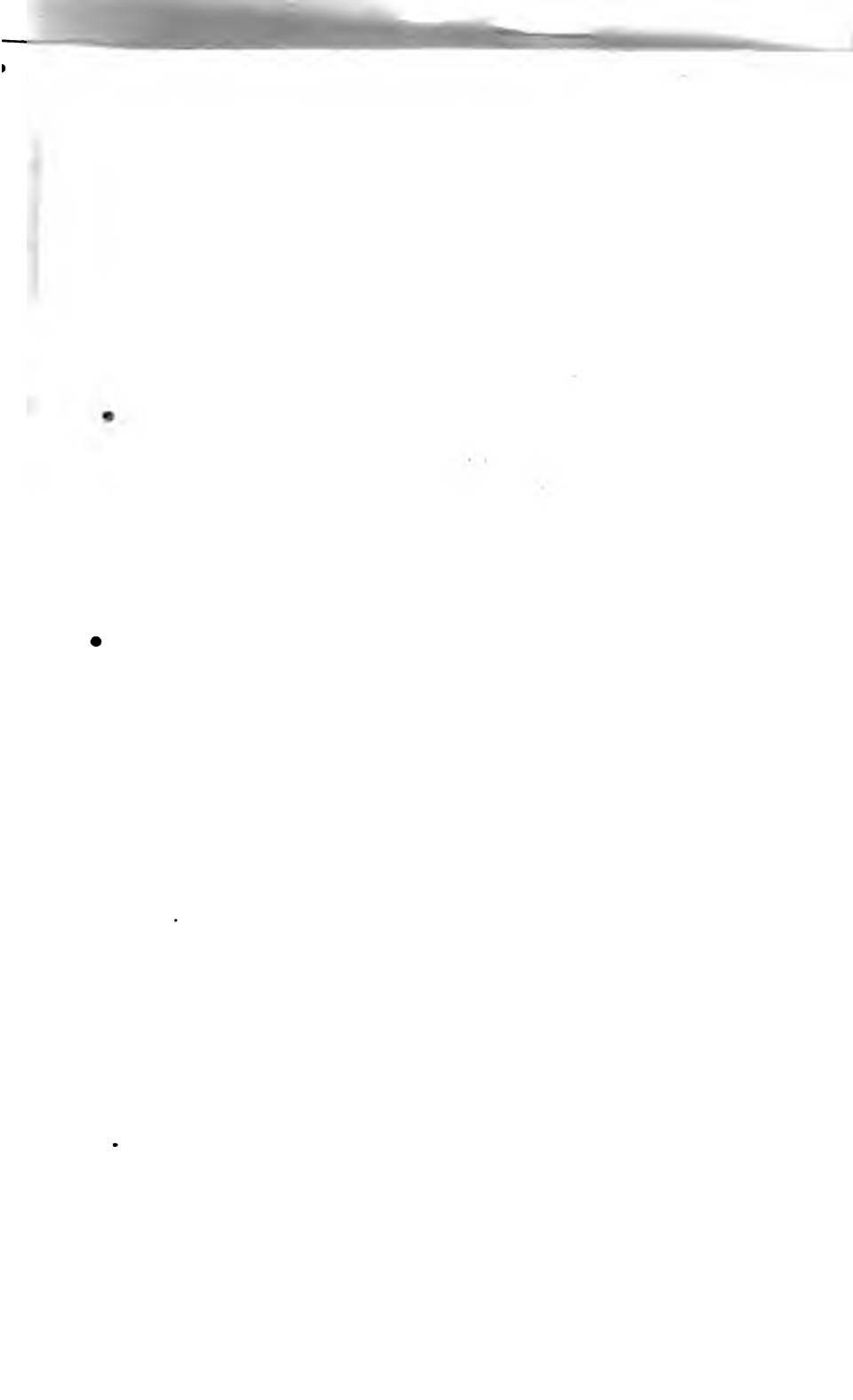
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**CHRISTIAN CHINESE CHURCH**, Fort Street, F W Damon, Acting Pastor. Services every Sunday at 10:30 A M and 7:30 P M. Prayer Meeting Wednesdays at 7:30 P M.

#### NATIVE CHURCHES.

**KAWAIAHAO CHURCH** (Congregational), corner of King and Punchbowl Streets, Rev H H Parker, Pastor. Services in Hawaiian every Sunday at 11 A M, and at 7:30 on Sunday evenings alternating with Kaunakapili. Sunday School at 10 A M. Prayer Meeting Wednesday at 7:30 P M.

**KAUNAKAPILI CHURCH** (Congregational), Bere-tania street, near Maunakea. Rev J Waiamau, Pastor. Services in Hawaiian every Sunday at 10:30 A M, and at 7:30 P M on Sunday evenings alternating with Kawaiahaio. Sunday School at 9:30 A M. Prayer Meeting every Wednesday at 7:30 P M.

#### Publications.

*The Daily Herald*, issued every morning (except Sundays). D. Logan, Editor and Proprietor.

*The Daily Pacific Commercial Advertiser*, issued every morning (except Sundays); weekly edition issued on Tuesdays. R. J. Creighton, Managing Editor.

*The Daily Bulletin*, issued every evening (except Sundays). W. Hill, Editor and Proprietor.

*The Gazette*, issued every Tuesday morning by the *Gazette* Pub. Co., H. M. Whitney, Manager.

*The Friend*, issued on the first of each month. Rev. E. C. Oggel, Editor.

*The Anglican Church Chronicle*, issued on the first Saturday of every month. Rev. A. Mackintosh, Editor.

*The Planter's Monthly*, issued on the 15th of each month. H. M. Whitney, Editor.

*The Elele Poakolu* (native), issued every Saturday. Issues also a Daily.

*The Hawaii Pae Aina* (native), issued every Saturday morning. J. U. Kawaiui, Publisher and Editor. Issues also a Daily.

*The Kuokoa* (native), issued every Saturday morning. Rev. H. H. Parker, Editor and Publisher.

*Na Lani Ehiku*, (native daily). T. Spencer, Publisher.

*O Luso Hawaiiano*, (Portuguese), issued weekly on Saturdays. A. Marques, Editor and Proprietor.

*The Hawaiian-Chinese News*, issued weekly.

## T. G. THURM,

*Publisher of the following Periodicals, Etc., will mail the same to any address on receipt of their price.*

**THE ISLANDER**: A weekly paper of 34 numbers, issued from March to October, 1875, with title page and index. Price \$2.00; foreign mail, \$2.50.

**HAWAIIAN ALMANAC AND ANNUAL**, for '75, '76, '77, '78, '80, '81, '84, '85, '86 and '87, issued each December for the succeeding year. Price, 50 cents each; foreign mail, 60 cents. [Issues for '79, '82 and '83 are out of print.] Complete index for the first twelve issues, 25 cents.

**LIST OF BIRDS OF THE HAWAIIAN ISLANDS**, by Sanford B. Dole, Esq.; a pamphlet of 18 pages. Price, 25 cents; by mail, 30 cents.

**HAWAIIAN FERNS**: A synopsis taken mostly from Hooker and Baker, by Edw. Bailey, a pamphlet of 62 pages. Price, 75 cents.

**KILAUEA**: An Ideal Volcano Trip to Kilauea during Its Quiescent Period, March, 1886; by T. G. Thurm; a pamphlet of 16 pages. Price, 25 cents.

**LAND SHELLS OF THE HAWAIIAN ISLANDS**: By D. D. Baldwin, a pamphlet of 9 pages. Price, 25 cents,

**THE FRIEND**: Rev. E. C. Oggel, Editor; T. G. Thurm, Business Manager; issued monthly. The oldest English paper published in the Pacific. Island subscription, \$2.00; foreign, \$2.50.

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